

INDEX TO VOLUME 173

This index covers both the *Initial Reports* and *Scientific Results* portions of Volume 173 of the *Proceedings of the Ocean Drilling Program*. References to page numbers in the *Initial Reports* are preceded by "A" with a colon (A:) and to those in the *Scientific Results* (this volume) by "B" followed by the chapter number with a colon (B1:).

The index was prepared by Earth Systems, under subcontract to the Ocean Drilling Program. The index contains two hierarchies of entries: (1) a main entry, defined as a keyword or concept followed by a reference to the page on which that word or concept appears, and (2) a subentry, defined as an elaboration on the main entry followed by a page reference.

The index covers volume text, figures, and tables but not core-description forms ("barrel sheets"), core photographs, smear-slide data, or thin-section descriptions. Also excluded from the index are bibliographic references, names of individuals, and routine front matter.

The Subject Index follows a standard format. Geographical, geologic, and other terms are referenced only if they are subjects of discussion. A site chapter in the *Initial Reports* is considered the principal reference for that site and is indicated on the first line of the site's listing in the index. Such a reference to Site 1065, for example, is given as "Site 1065, A:65–104."

The Taxonomic Index is an index relating to significant findings and/or substantive discussions, not of species names *per se*. This index covers three varieties of information: (1) individual genera and species that have been erected or emended formally, (2) biostratigraphic zones, and (3) fossils depicted in illustrations. A taxonomic entry consisting of both genus and species is listed alphabetically by genus and also by species. Biostratigraphic zones are listed alphabetically by genus; zones with letter prefixes are listed under "zones."

SUBJECT INDEX

A

- abyssal plains
 - lithologic units, A:273
 - sedimentation, A:293
- accretion, early oceanic, basement, B(synopsis):15–16
- age, isotopes, B(synopsis):35
- age vs. depth
 - mass accumulation rates, B5:24, 26
 - Site 398, B4:19
 - Site 897, B11:36
 - Site 898, B11:40
 - Site 900, B4:19; B11:44
 - Site 1067, A:121; B4:19; B11:47
 - Site 1068, A:180; B4:19; B5:23, 43; B11:51
 - Site 1069, A:241; B4:19; B5:25, 45; B11:55
- Albian, palynology, A:104
- albite
 - amphibolite, A:130–131
 - breccia, A:195
 - breccia clasts and matrix, A:193–194
 - clasts, A:282–283
 - folds, A:143–144
 - photograph, A:188
 - tonalite gneiss, A:131
- albitization, meta-anorthosite clasts, A:191
- allochems
 - lithologic units, A:74
 - photomicrograph, A:80
- Alpine structures, basement, B(synopsis):17–18
- alteration
 - photograph, A:280
 - See also* albitization; chloritization; dolomitization; hydrothermal alteration
- aluminum oxide
 - serpentinized peridotite, A:196, 284
 - vs. calcium oxide, A:199, 286
 - vs. magnesium oxide, A:199, 286
- amphibole
 - amphibolite, A:130–131
 - amphibolite clasts, A:190–191
 - breccia, A:188–189
 - breccia clasts and matrix, A:193–194
 - clasts, A:282–283
 - meta-anorthosite, A:131
 - metagabbro clasts, A:191
 - metatonalite clasts, A:191
 - pegmatite, A:280
 - photograph, A:280–281
 - tectonic breccia, A:132
 - See also* hornblende
- amphibole, poikilitic, A:130–131

amphibole, zoned, photomicrograph, A:283
 amphibole grains, photomicrograph, A:289
 amphibolite
 basement, A:13; B(synopsis):9–10, 13–15
 breccia, A:131–132
 clasts, A:279
 emplacement, A:137
 foliation, A:139
 gabbroic protolith, A:155–156
 geochemistry, A:133–135, 139–141, 195–199
 heat flow, B3:2
 mineralogical evolution, A:135
 petrography, A:130–131
 photograph, A:147, 188, 191
 saturation remanence, B8:24
 Unit 3, A:130
 whole-rock geochemistry, B10:1–20
 See also micro-amphibolite
 amphibolite, brecciated
 Unit 2, A:127–129
 X-ray diffraction data, A:138
 amphibolite, deformed, Unit 3, A:130
 amphibolite, folded, photomicrograph, A:134, 144
 amphibolite, foliated
 breccia, A:188–189
 photograph, A:128–130
 photomicrograph, A:132–133
 Unit 1, A:124, 126–127
 amphibolite, poikilitic, photomicrograph, A:135
 amphibolite, retrogressed, photomicrograph, A:145
 amphibolite facies
 gabbroic protolith, A:155–156
 internal structures, A:199–201
 petrography, A:130–131
 petrology, A:215–217; B(synopsis):13–14
 analcime
 breccia, A:195
 breccia clasts and matrix, A:194
 breccia matrix, B1:3–5
 clasts, A:283
 serpentinized peridotite, A:192–193
 vs. depth, B1:7, 11
 analcime, isotropic, photomicrograph, A:283
 andesine
 amphibolite, A:138–139
 amphibolite clasts, A:190–191
 andradite
 breccia matrix, B1:3–5
 vs. depth, B1:7, 11
 Anisian, palynology, A:103–104
 ankerite, breccia clasts and matrix, A:194
 anomalies, basement, A:11
 anorthosite
 photograph, A:130
 photomicrograph, A:137
 veins, A:141, 143
 See also meta-anorthosite
 anorthosite, deformed, photomicrograph, A:144
 anorthosite pods, Unit 2, A:127–129
 anorthosite veins, foliation, A:141, 143
 apatite

amphibolite clasts, A:190–191
 breccia matrix, B1:3–5
 meta-anorthosite, A:131
 metatonalite clasts, A:191
 tonalite gneiss, A:131
 vs. depth, B1:7, 11
 Aptian, sediments, A:11–12; B(synopsis):16
 Aptian, upper
 lithologic units, A:272–273
 sedimentation, A:293
 arenite
 photograph, A:230, 240
 See also meta-arenite
 arenite, lithic
 lithologic units, A:75
 photomicrograph, A:78
 argon isotopes, age, B(synopsis):35
 arkose
 lithologic motifs, A:173–174
 See also meta-arkose
 Atlantic Ocean NE, rifting, A:7
 augen, plagioclase, photograph, A:128
 augen gneiss
 tonalite gneiss, A:131, 141
 Unit 1, A:126
 awaruite, saturation remanence, B8:24
 Azores/Gibraltar plate boundary, basement, A:11

B

ball and pillow structures, lithologic motifs, A:173
 banding, photograph, A:149
 barium
 amphibolite, A:134
 breccia clasts, A:195
 vs. depth, A:140
 Barremian
 biostratigraphy, A:177–182
 nanofossils, A:175–177
 sediments, A:11
 tectonics, A:216–217
 basalts, basement, A:13
 basement
 contours, A:110, 269; B(synopsis):31
 deformation, A:138–141, 143–144
 depth, A:102; B5:19
 heat flow, B3:1–4
 index properties, A:153
 lithology, A:215–217
 mafic rocks, A:155–156
 magnetic data, A:124
 magnetic properties, A:155–156
 rifting, A:8–15
 structural data, A:98–102, 150
 structural and magnetic data, B8:34
 Unit IV and Unit I, A:186
 basement, acoustic
 Berriasian–Valanginian, A:237
 heat flow, B3:4
 lithology, A:279; B(synopsis):6
 physical properties, A:210–211

- basement/sediment contact, serpentinization, A:290
basement ridge, lithologic units, A:228–234
basins, paleoecology, B7:6–8
bastite
 clasts, A:189–190, 282–283
 photograph, A:190, 281
 serpentinized peridotite, A:192–193, 280–282
Bathonian, lower, palynology, A:104
bathymetry, Galicia Bank and southern Iberia Abyssal Plain margins, A:9, 13, 67, 111; B(synopsis):30
bedding
 dip, A:100, 102, 197
 lithologic units, A:110, 112–114
 metasediment pebble from Unit VB, A:251
 metasediments, A:246–247
 photograph, A:91, 231
 photomicrograph, A:251
 Unit II, A:84–85
 viscous remanent magnetization, A:136–138
bedding dip
 Unit II, A:84–85
 Unit V, A:86
 vs. depth, A:142, 199, 250
Berriasian
 basement, A:10
 lithologic units, A:234–236
 rifting, B7:8
 unconformities, B7:14
Berriasian, upper, pelagic drape, A:237
biohorizons, nannofossils, B4:22, 24, 26–28
biostratigraphic datums
 paleomagnetism, B11:57, 60, 63, 67, 69, 71
 See also nannofossil datums
biostratigraphy
 Campanian–Miocene, B9:2
 Cenozoic, B11:1–73
 Eocene, B4:1–35
 Jurassic, B7:3–5
 Site 1065, A:77–81
 Site 1067, A:114–121
 Site 1068, A:177–182
 Site 1069, A:241–244
 Site 1070, A:273–275
 Upper Cretaceous–Paleocene, B5:1–50
biotite
 clasts, A:282–283
 metagabbro clasts, A:191
 photograph, A:76
 photomicrograph, A:136
 tonalite gneiss, A:131
biotite schist
 breccia, A:188–189
 photograph, A:76
biotite schist, porphyroblastic, photomicrograph, A:78
bioturbation
 lithologic motifs, A:168–170
 lithologic units, A:110, 112–114, 270
 photograph, A:231, 274
 photomicrograph, A:174
Biscay Bay N, rifting, A:7
bivalves, photograph, A:119, 238
blebs
 metagabbro clasts, A:191
 serpentinized peridotite, A:192–193
block faults, deposition, B7:16
boehmite, breccia matrix, B1:8–14
Boltzmann's constant, magnetic properties, B8:9
Bouma sequences
 calcareous sand/siltstone/claystone, B4:16
 lithologic units, A:228–234
boundstone
 lithologic units, A:238
 photograph, A:238–240
boundstone, peloidal, photomicrograph, A:78
breakup unconformity, rifting, A:8–12
breccia
 basement, A:11–12, 279
 deformation, A:148
 lithologic units, A:273
 magnetic properties, A:183, 185
 matrix mineralogy, B1:1–14
 metamorphism, A:193
 overprinting, A:201
 percentage of matrix in Unit IV, A:189
 petrography, A:131–132, 273
 petrology, A:279
 photograph, A:176–177, 188, 274
 photomicrograph, A:201, 282
 structural data, A:285–288
 tectonics, A:201, 215–217
 Unit IV, A:175–177, 186, 188–189
 X-ray diffraction data from Unit IV, A:194–195
 See also microbreccia
breccia, amphibolite
 Unit 1, A:124, 126–127
 Unit 3, A:130
breccia, calcite-cemented, lithologic units, A:238, 240–241
breccia, clast supported, photograph, A:147, 176–179
breccia, matrix-supported
 photograph, A:147
 photomicrograph, A:288
 Unit 2, A:127–129
breccia, matrix-supported serpentinite, photograph, A:202
breccia, matrix-supported tectonic, mineralogy, A:132
breccia, serpentinite, foliation, A:202
breccia, tectonic, development, A:147
breccia, tectonically overprinted in Unit IVC, photograph, A:200
breccia, tonalitic, Unit 2, A:127–129
breccia matrix
 geochemistry, A:139–140
 mineralogy, B1:1–14
 X-ray diffraction data, A:138, 193, 285
brecciation
 basement, A:13
 deformation, A:285–288
 Unit 2, A:127–129
 veins, A:132
brittle deformation, fluid–rock interaction, A:144–145
brucite, breccia clasts and matrix, A:195

Brunhes/Matuyama boundary, magnetostratigraphy, B11:9–13, 21–23
 Brunhes Chron, sediments, B11:8–10
 bulk density logs, vs. depth, A:97, 214, 261
 burrows
 lithologic motifs, A:168–172
 lithologic units, A:74–77, 112–114
 photograph, A:82–83, 117, 170–171, 231–232
 photomicrograph, A:79, 118, 120
 turbidites, B6:2–3

C

calcisphere, photomicrograph, A:232
 calcisponges, chaetiid, photograph, A:238
 calcite
 breccia, A:195
 breccia clasts and matrix, A:193–194
 breccia matrix, A:193; B1:3–5
 clasts, A:279, 284
 deformation, A:285–288
 lithologic units, A:71–73, 75, 175–177
 metatonalite clasts, A:191
 photograph, A:129, 149, 178–179, 188
 photomicrograph, A:118, 178
 tectonic breccia, A:132
 Unit 1, A:126
 Unit 2, A:127–129
 Veins, A:144–145, 279
 vs. depth, B1:7, 11
 calcite, dog-tooth, photograph, A:288
 calcite, interlaminated, photograph, A:173
 calcite, sparry, deformation, A:198–199
 calcite cement, photograph, A:233, 239
 calcite crystals, lithologic units, A:176–177
 calcite fibers, photomicrograph, A:288
 calcite matrix, photomicrograph, A:282
 calcite spar
 lithologic units, A:112–114
 photograph, A:176–179, 238
 calcium, pore water, A:90
 calcium carbonate, lithologic units, A:71–73
 calcium oxide
 breccia clasts, A:196
 serpentinized peridotite, A:196, 284
 vs. aluminum oxide, A:199, 286
 caliper logs
 lithology, A:51–61
 vs. depth, A:95, 213, 260
 Callovian, lower, palynology, A:103–104
 Campanian
 biostratigraphy, B5:7, 10
 lithologic units, A:225–234
 planktonic foraminifers, B9:1–13
 unconformities, B7:14
 See also Valanginian–Campanian
 Cape Finisterre, continental margin, A:7–12
 Cape Saint Vincent, continental margin, A:7–12
 carbon, sediments, A:92, 150, 204, 253, 290
 carbon, inorganic, sediments, A:87–88, 148, 150, 204, 252, 290

carbon, organic
 sediments, A:87–88, 148, 150, 204, 252, 290
 vs. depth, A:92
 carbon/nitrogen ratio
 sediments, A:88, 92, 151, 204
 vs. depth, A:92
 carbonate compensation depth
 deposition, A:114, 273, 293; B5:10–12
 lithologic units, A:234–236
 sediments, A:204, 252
 carbonate content
 sediments, A:88, 92, 148–150, 204, 252–253, 290
 vs. depth, A:92, 150, 205, 253
 carbonate mud, photograph, A:238
 carbonates
 laminations, A:174–175
 See also ankerite; boundstone; grainstone; micrite; microspar; packstone; packstone/chalk
 carbonation, greenschist facies, A:144–145
 Carboniferous, basement, A:10
 cataclasis
 breccia, A:175–177
 breccia clasts and matrix, A:195
 clasts, A:256–258
 foliation, A:202
 cataclasite
 basement, A:10
 clasts, A:189–190
 overprinting, A:199
 photograph, A:188
 photomicrograph, A:192
 serpentinized peridotite, A:192–193
 cataclasite, serpentinite, deformation, A:193
 cavities, photograph, A:238–239
 Cenozoic
 biostratigraphy, A:117–120; B11:1–73
 sedimentation, A:100–102
 cerium, breccia clasts, A:195
 chalcopyrite, metasediments, A:246–249
 chalk
 lithologic units, A:175–177
 photograph, A:188
 turbidites, B6:3
 See also packstone/chalk
 chalk, brecciated nannofossil, photograph, A:236
 chalk, calcareous
 lithologic motifs, A:168–172
 lithologic units, A:273
 petrography, A:273
 photomicrograph, B6:8
 chalk, clayey nannofossil, lithologic units, A:71–74
 chalk, dolomitic silty, lithologic units, A:269–272
 chalk, foraminiferal
 lithologic motifs, A:168–172
 photomicrograph, A:118
 chalk, nannofossil
 lithologic motifs, A:168–173
 lithologic units, A:71–74, 228–236, 269–273
 photograph, A:76, 170–171, 231–232, 236
 photomicrograph, B6:8
 turbidites, B6:1–11

- well-logging, A:51–61
 chloride, pore water, A:88, 90
 chlorite
 amphibolite, A:130–131
 amphibolite clasts, A:190–191
 basement, A:10
 breccia, A:131–132, 188–189, 195
 breccia clasts and matrix, A:193–194
 breccia matrix, A:193; B1:3–5
 chloritized metabasite clasts, A:191–192
 clasts, A:189–190, 282–283
 folds, A:143–144
 lithologic units, A:75
 meta-anorthosite, A:131
 metagabbro clasts, A:191
 metamorphism, A:136
 metasediments, A:246–249
 metatonalite clasts, A:191
 photograph, A:129, 188, 190, 281
 photomicrograph, A:192, 251
 serpentized peridotite, A:192–193, 280–282
 tectonic breccia, A:132
 tonalite gneiss, A:141
 Unit 1, A:126
 Unit 2, A:127–129
 Unit 3, A:130
 veins, A:144–145
 vs. depth, B1:7, 11
 X-ray diffraction data, A:285
 chloritite, foliation, A:201
 chloritization
 cataclasts, A:199
 deformation, A:285–288
Chondrites
 lithologic motifs, A:168
 lithologic units, A:71–75, 77, 110, 112–114
 photograph, A:82–83
 photomicrograph, A:79
 chrome spinel, serpentized peridotite, A:192–193, 280–282
 chromium, serpentized peridotite, A:284
 Chron C3A/C4 boundary, magnetostratigraphy, B11:13
 Chron C5D, magnetostratigraphy, B11:11
 Chron C20n, magnetostratigraphy, B11:15
 Chron C20n/C20r, magnetostratigraphy, B11:15
 Chron C21n, magnetostratigraphy, A:183; B11:13, 15, 17, 22–23
 Chron C22n, magnetostratigraphy, B11:15, 17, 22–23
 Chron C23n, magnetostratigraphy, B11:15, 17, 22–23
 Chron C24, magnetostratigraphy, B11:20
 Chron C24n, magnetostratigraphy, B11:15–17, 22–23
 Chron C25n, magnetostratigraphy, B11:17, 22–23
 Chron C29r, magnetostratigraphy, A:183
 chrysotile
 breccia clasts and matrix, A:195
 clasts, A:282–283
 fibers, A:202
 petrology, A:189–190
 serpentized peridotite, A:192–193
 veins, A:203
 clastics, deposition, B7:16
 clasts
 breccia, A:131–132
 disintegration, A:198–200
 foliation, A:148
 gabbro, A:282–283
 lithologic motifs, A:173–174
 lithologic units, A:71–74, 238, 240–241
 lithology in Unit IV, A:186
 metasediments, A:256–258
 petrography, A:273
 petrology, A:188–189, 279
 photograph, A:176–179, 188, 274
 photomicrograph, A:80, 192
 serpentinite, A:282
 source, A:155–156
 tectonics, A:215–217
 Unit IV, A:186, 188–189
See also lithoclasts
 clasts, amphibolite
 internal structures, A:199–200
 petrography, A:190–191
 photograph, A:147, 191
 Unit 2, A:127–129
 clasts, anorthosite, lithologic units, A:175–177, 188–189
 clasts, basement, lithologic units, A:175–177, 188–189
 clasts, biotite, photomicrograph, A:118
 clasts, biotite hornfels, photomicrograph, A:174
 clasts, biotite schist, lithologic units, A:176–177, 188–189
 clasts, boundstone, photograph, A:239
 clasts, breccia
 geochemistry, A:195–196
 internal structures, A:199–201
 photomicrograph, B6:8
 X-ray diffraction data, A:193–194
 clasts, calpionellid limestone, lithologic units, A:175–177
 clasts, chloritite, internal structures, A:201
 clasts, chloritized metabasite, petrography, A:191–192
 clasts, cryptalgal micrite, photomicrograph, A:174
 clasts, dunite, lithologic units, A:175–177, 188–189
 clasts, epidosite
 breccia, A:131–132
 internal structures, A:201
 lithologic units, A:175–177, 188–189
 clasts, epidote, lithologic units, A:175–177
 clasts, extraformational, lithologic units, A:234–236
 clasts, foliated amphibolite, lithologic units, A:175–177, 188–189
 clasts, jigsaw brecciated
 petrology, A:189
 photograph, A:287
 structural data, A:285–288
 clasts, limestone
 lithologic units, A:75, 175–177
 photomicrograph, A:233, 236; B6:8
 clasts, meta-anorthosite
 internal structures, A:200–201
 petrography, A:191
 clasts, meta-igneous, lithologic units, A:175–177, 188–189

- clasts, metabasite, lithologic units, A:175–177, 188–189
- clasts, metagabbro
 internal structures, A:199–200
 lithologic units, A:175–177, 188–189; B(synopsis):9–10
 petrography, A:190–191
 photomicrograph, A:201
- clasts, metasediments, photograph, A:230, 236, 239–240
- clasts, metatonalite, petrography, A:191
- clasts, micrite, photomicrograph, A:233
- clasts, microamphibolite, lithologic units, A:175–177, 188–189
- clasts, monogenic, photograph, A:287
- clasts, olivine gabbro, lithologic units, A:175–177, 188–189
- clasts, pelite
 photograph, A:119
 photomicrograph, A:174, 233
- clasts, polycrystalline quartz, photomicrograph, A:233
- clasts, quartz
 lithologic units, A:112–114, 234
 photomicrograph, A:78, 118, 174, 233
- clasts, serpentine, photograph, A:287
- clasts, serpentinite
 lithologic units, A:175–177, 189–190
 petrology, A:279
 photomicrograph, A:282
- clasts, tonalite, internal structures, A:201
- clay
 breccia matrix, B1:3–5
 lithologic units, A:71–74, 112–114, 238
 photograph, A:274
 siltstone, A:270
 Tithonian, A:256–258
See also boehmite; illite
- clay, calcareous
 lithologic motifs, A:170–172
 well-logging, A:51–61
- clay, calcareous silty, well-logging, A:51–61
- clay, expandable, vs. depth, B1:7
- clay, silty, well-logging, A:51–61
- claystone
 lithologic motifs, A:168–173
 lithologic units, A:74–77, 110, 112–114, 228–234, 269–272
 photograph, A:82–83, 171–172
 source, A:155–156
 structural data, A:196–197
 turbidites, B6:1–11
 well-logging, A:51–61
- claystone, calcareous
 lithologic motifs, A:168–173
 lithologic units, A:228, 269–272
 photograph, A:117, 171–172, 174, 231–232
- claystone, calcareous silty
 lithologic motifs, A:173
 lithologic units, A:110, 112–114
- claystone, dolomitic, lithologic units, A:74–77
- claystone, hemipelagic, photograph, A:230
- claystone, nannofossil
 lithologic units, A:71–74, 110, 112–114, 228
- photograph, A:76, 170
- claystone, phyllosilicate, lithologic motifs, A:173
- claystone, silty
 lithologic units, A:269–272
 photograph, A:117
 photomicrograph, A:120
- cleavage planes, greenschist facies, A:144–145
- clinopyroxene
 amphibolite clasts, A:190–191
 basement, A:13
 chloritized metabasite clasts, A:191–192
 clasts, A:283–284
 meta-anorthosite clasts, A:191
 metagabbro clasts, A:191
 pegmatite, A:280
 photograph, A:280
 photomicrograph, A:283
 replacement, A:200
 serpentinized peridotite, A:192–193, 280–282
- Cobb Mountain Subchron, magnetostratigraphy, B11:10
- Cochiti Subchron, magnetostratigraphy, B11:13
- coercive force, hysteresis, B8:8
- compaction
 deposition, A:114
 magnetostratigraphy, B11:21–23
- compressional wave velocity
 acoustic basement, A:211
 sediments, A:94, 151, 153, 209–210, 253–254, 256, 292–293
 vs. depth, A:94
- conglomerate
 lithologic motifs, A:170, 172
 lithologic units, A:74–77, 228–234, 238, 240–241
 Paleocene, A:114
 photograph, A:119
 photomicrograph, A:174
- conglomerate, lithoclastic, photomicrograph, A:79–80
- conglomerate test, thermal demagnetization, A:185, 248
- continent. *See ocean/continent transition*
- continental margin
 anomalies, A:15
 rifting, A:7
- continental margin, non-volcanic, rifting, A:7
- continental rise, lithologic units, A:228–234
- contour currents
 carbonates, A:174–175
 winnowing, A:217
- contourite
 deformation, A:136–138
 lithologic units, A:228–234
- copper, native, veinlets, A:279
- core imaging, dip, A:86–87
- corona texture, metagabbro clasts, A:191
- correlation
 Cretaceous–Tertiary, B5:20
 Eocene, B4:18
- Cretaceous
 biostratigraphy, A:177–182, 241–244
 lithostratigraphy, A:165–175
 nannofossil distribution, B5:34, 39–42

- See also* Albian; Aptian; Barremian; Maastrichtian; Oligocene–Cretaceous; Valanginian
- Cretaceous, Lower
 biostratigraphy, A:273–275
 nannofossils, A:175–177
 palynology, A:103–104
- Cretaceous, Upper
 biostratigraphy, B5:1–50
 planktonic foraminifers, B9:1–13
 turbidites, B6:1–11
- Cretaceous/Tertiary boundary
 biostratigraphy, B5:6–7, 10; B9:4–5
 glauconite, B6:3
 magnetostratigraphy, A:183
 sedimentation, A:258
- Cretaceous Long Normal, magnetostratigraphy, B11:16
 cross laminations
 lithologic motifs, A:168–170
 photograph, A:172, 231–232
- crust, continental, evidence for, B(synopsis):7–8
 crust, oceanic, seismic models, B(synopsis):15–16
 crust, reflectors, A:11
 crust/mantle boundary, H Reflector, A:217
 crystallites, chloritized metabasite clasts, A:191–192
 Curie temperature, peridotite, B8:9
- D**
- debris flows
 deposition, A:177
 lithologic units, A:273
 sedimentation, A:293
 sediments, A:14
 tectonics, A:216–217
- deformation
 basement, A:138–141, 143–144
 breccia, A:193
 foliation, A:148
 metamorphism, A:136
 Unit 3, A:130
See also brittle deformation
- deformation, brittle, breccia, A:197–201; B(synopsis):13
- deformation, ductile
 internal structures, A:199–201
 photomicrograph, A:283
- deformation, extensional, greenschist facies, A:155–156
- deformation structures
 breccia, A:197–201
 Unit II, A:197
- demagnetization
 cores, B11:6–8
 discrete samples, B8:6–7, 19
 metamorphic rocks, A:81
- demagnetization, alternating-field
 discrete samples, B8:17
 vectors, B11:30–32, 34, 37–38, 41–42
- demagnetization, thermal
 sediments, A:276
 vector diagrams, A:85, 125–126, 184–185, 247, 278;
 B8:19–21; B11:45, 48, 52–53
- dendrites, lithologic units, A:74
- density
 multisensor track, A:93–94
See also bulk density logs
- density, bulk
 acoustic basement, A:210–211
 metamorphic rocks, A:153
 sediments, A:90–91, 93, 153, 253, 292
 vs. depth, A:93, 152, 207, 210, 254, 291
 vs. velocity, A:154–155, 209, 211, 257
- density, grain
 metamorphic rocks, A:153
 sediments, A:90–91, 93
- density logs. *See* bulk density logs
- deposition
 Berriasian–Valanginian, A:237
 breccia, A:179
 lithologic units, A:73–77
 paleoenvironment, A:270, 272–273
 turbidite, A:234
 turbidites, A:114
 Unit II, A:174–175
 Unit IV, A:177
- detachment faults
 deposition, B7:16
 mantle, A:17
- Devonian, basement, A:10
- dewatering
 lithologic units, A:74
 magnetostratigraphy, B11:21–23
- diagenesis
 breccia clasts and matrix, A:194–195
 lithologic motifs, A:168–170
- differentiation, metagabbro, A:155–156
- dikes, basement, A:10
- diorite, basement, A:10
- dip
 bedding, A:100, 102, 197
 core imaging, A:86–87
 foliation, A:202, 250–251
 Formation Microscanner imagery, A:98
 photograph, A:91
 siltstone/sandstone alternation, A:137–138
 tectonics, A:136–138
 veins, A:145
 vs. depth, A:142
See also foliation dip
- discriminant analysis, well-logging, A:51–61
- dolomite
 breccia clasts and matrix, A:194
 lithologic units, A:71–73, 75
 photomicrograph, A:80
 porphyroblasts, A:245–249
 sediments, A:13
 well-logging, A:51–61
- dolomitization, sediments, A:92
- downhole measurements
 Iberia Margin W, A:49–61
 Site 1065, A:94–98
 Site 1068, A:211–212
 Site 1069, A:254–256
 drapes, lithologic units, A:234–236

drapes, pelagic, Berriasian–Valanginian, A:237
dunite
 protolith, A:192–193
 spinel, A:12

E

echinoderm fragments
 lithologic units, A:112–114
 photomicrograph, A:174

electrofacies, classification criteria and log value limits, A:51

elongate minerals
 amphibolite clasts, A:190–191
 deformation, A:198–199
 foliation, A:138–139
 quartz crystal photomicrograph, A:251
 Unit 1, A:124, 126–127

Eocene
 biostratigraphy, A:177–182, 241–244; B4:1–35
 correlation, B4:18
 deformation, A:8
 lithostratigraphy, A:165–175
 planktonic foraminifers, B9:1–13
 sedimentation rates, A:174–175
 See also Paleocene/Eocene boundary

Eocene, lower, magnetostratigraphy, B11:17, 21

Eocene, middle
 lithologic units, A:110, 112–114, 225–234
 magnetostratigraphy, A:121, 124; B11:16

Eocene marker bed, ocean/continent transition zone, B11:64

epidosite
 breccia, A:131–132, 188–189
 Unit 1, A:124, 126–127

epidote
 amphibolite, A:130–131
 amphibolite clasts, A:190–191
 breccia, A:188–189
 chloritized metabasite clasts, A:191–192
 meta-anorthosite, A:131
 metagabbro clasts, A:191
 photograph, A:129
 tonalite gneiss, A:131
 Unit 1, A:126
 Unit 2, A:128
 Unit 3, A:130
 veins, A:132

epidote veins, folds, A:143–144

Estremadura Spur, continental margin, A:8–12

ethane, headspace gases, A:205, 253

europium/europium number ratio, amphibolites and metagabbros, B10:5

europium number. *See* europium/europium number ratio

exsolution lamellae
 amphibolite clasts, A:190–191
 metagabbro clasts, A:191

extension
 continental margin, A:7
 lithosphere, A:17

Lower Cretaceous, A:8–12
extension factors, reflectors, A:11

F

fabric, metasediments, A:246–247

fault blocks, sedimentation, A:258

fault dip, vs. depth, A:146

fault gouge
 deformation, A:148
 metamorphism, A:136
 photograph, A:149
 structural data, A:285–288

fault gouge, indurated, Unit 2, A:127–129

fault gouge matrix, X-ray diffraction data, A:138

fault zones, veining, A:148

faulting, plate tectonics, A:17–19; B(synopsis):6–7

faults
 lithologic units, A:71–74
 metasediments, A:249–250
 stereographic representation, A:146
 structural data, A:98–102
 Unit II, A:197
 See also block faults; microfaults

faults, listric, Unit V, A:86

faults, normal
 photograph, A:149
 Unit V, A:86

faults, reverse, Unit V, A:86

faults, synsedimentary, photograph, A:172

feldspar
 lithologic units, A:75
 siltstone, A:270

feldspar, detrital, photomicrograph, A:249

ferrimagnetics, magnetic properties, B8:9

fibrous texture, chloritized metabasite clasts, A:191–192

fluid flow, greenschist facies, A:144–145

fluid inclusions, quartz-rich veins, A:147–148

fluid infiltration, petrography, A:130–131

fluid–rock interaction, Unit IV, A:186, 188–189

folding, lithologic units, A:71–74

folds
 metamorphic rocks, A:143–144
 photograph, A:87, 91
 Unit 1, A:126
 Unit V, A:86
 vs. microfaults, A:90
 See also microfolding

folds, isoclinal, Unit II, A:84–85

folds, kink, epidote veins, A:144

folds, refolded, Unit II, A:84–85

foliation
 amphibolite, A:130–131, 139
 amphibolite clasts, A:190–191
 anorthosite veins, A:141, 143
 basement, A:10
 breccia, A:188–189
 chloritite, A:201
 deformation, A:148, 193, 290
 metagabbro clasts, A:191
 metamorphism, A:136

metasediment pebble from Unit VB, A:251
metasediments, A:246–247, 249–252
metatonalite clasts, A:191
orientation, A:250–251
photograph, A:190, 240, 289
photomicrograph, A:132–133, 192, 251, 289
plagioclase, A:200
serpentinite, A:189–190, 202
tonalite gneiss, A:131, 139–141
Unit 1, A:124, 126–127
foliation dip, vs. depth, A:142, 146, 203
foliation planes, magnetic inclination, A:126
foraminifers
 lithologic motifs, A:173–174
 photomicrograph, A:118, 174, 233; B6:8
 turbidites, B6:2–4
foraminifers, benthic, biostratigraphy, A:79, 119–120,
 179–180, 244, 275
foraminifers, planktonic
 biostratigraphy, A:77, 79, 119, 178–179, 243–244, 275
 Campanian–Miocene, B9:1–13
 distribution, A:84, 123, 181, 243; B9:8–13
Formation Microscanner imagery
 deviation and azimuth, A:99
 lithostratigraphy, A:101
 structural data, A:98
fracture planes, quartz-rich veins, A:147–148
fractures
 basement, A:10
 breccia, A:132
 deformation, A:193
 greenschist facies, A:144–145
 photograph, A:280
 See also microfractures

G

gabbro
 basement, A:10–11, 19
 clasts, A:279, 282–283
 See also leucogabbro; metagabbro; microgabbro
gabbro, amphibole, photograph, A:281
gabbro, pegmatitic
 deformation, A:288–290
 petrology, A:279–280
 photograph, A:280
 photomicrograph, A:283
Galicia Bank
 continental margin, A:8–12
 deformation, A:8–10
 structural data, A:98–102
Galicia interior basin, subsidence, B7:6
gamma rays
 metasediments, A:252
 sediments, A:151, 153, 206–207, 291–292
 vs. depth, A:151, 206, 210, 254, 291
 vs. photoelectron factor, A:51
gamma-ray logs
 lithology, A:51–61
 vs. depth, A:96–97, 213–215, 260–262
garnet
 amphibolite, A:130–131
 breccia clasts and matrix, A:195
 serpentinized peridotite, A:192–193
 veins, A:203
 See also andradite
gases, headspace, sediments, A:92, 204–205, 252, 290
gastropods, pyritized, photomicrograph, A:249
Gauss Chron
 magnetostratigraphy, B11:12–13
 See also Matuyama/Gauss boundary
geochemistry, inorganic
 Site 1065, A:87–88, 90
 Site 1067, A:151
 Site 1068, A:205
 Site 1069, A:252
 Site 1070, A:290
geochemistry, organic
 Site 1065, A:87–88, 90
 Site 1067, A:148, 150–151
 Site 1068, A:203–205
 Site 1069, A:251–252
 Site 1070, A:290
geochemistry, whole-rock, amphibolites and metagab-
 bros, B10:1–20
geochronology, isotopes, B(synopsis):16–17, 35
geopetal fills, photograph, A:238
Gibraltar. *See* Azores/Gibraltar plate boundary
Gilbert/C3A boundary, magnetostratigraphy, B11:13
Gilbert Chron, magnetostratigraphy, B11:12–13
glauconite
 Cretaceous/Tertiary boundary, B6:3
 Paleocene/Eocene boundary, B6:3
gneiss. *See* augen gneiss; tonalite gneiss
Goban Spur, rifting, A:7
godlevskite, breccia clasts and matrix, A:195
Gorringe Bank, continental margin, A:8–12
grainstone
 lithologic units, A:234, 238
 photograph, A:76, 239
 photomicrograph, B6:8
grainstone, foraminiferal peloid, photograph, A:231
grainstone, intraclast/peloidal
 photograph, A:119
 photomicrograph, A:78
grainstone, peloidal
 lithologic motifs, A:173–174
 photograph, A:233
grainstone, peloidal intraclastic, photograph, A:238, 240
Grand Banks, rifting, A:8
granites
 basement, A:10
 See also plagiogranite
granoblastic texture, metagabbro clasts, A:191
granodiorites, basement, A:10
granules, lithologic units, A:71–74
granulite facies
 basement, A:17; B(synopsis):13–14
 breccia, A:193
 internal structures, A:199–201
graywacke, photograph, A:76
greenschist facies

basement, A:13, 19
breccia, A:131–132, 193
clasts, A:189–190
meta-anorthosite, A:131
metamorphism, A:136
metasediments, A:246–249
petrology, A:215–217

H

H reflector
 crust/mantle boundary, A:217
 plate tectonics, A:17, 23
haapalite, breccia, B2:1–9
harzburgite
 heterogeneity, A:212, 215–217; B(synopsis):12
 plagioclase, A:10, 12
heat flow, radiogenic, basement, B3:1–4
heazlewoodite, breccia clasts and matrix, A:195
hematite
 amphibolite clasts, A:190–191
 hysteresis loop, B11:33
 magnetic properties, B8:8–9
hemipelagite
 deformation, A:136–138
 lithologic units, A:73–77, 228–234, 236
hemipelagite, phyllosilicate clay, lithologic units, A:269–272
hiatuses
 magnetostratigraphy, B11:13, 19–22
 tectonics, A:216–217
 turbidites, B6:2
 Valanginian–Campanian, A:256–258
Hobby High, basement, B(synopsis):8
hornblende
 breccia matrix, B1:3–5
 geochronology, B(synopsis):17
 metagabbro clasts, A:191
 vs. depth, B1:7, 11
hydrothermal alteration
 breccia, A:175–177; B(synopsis):14
 breccia clasts and matrix, A:194–195
hypidiomorphic texture, photograph, A:129
hysteresis, saturation magnetization, B8:8, 22, 33
hysteresis loop, hematite, B11:33

I

Iberia Abyssal Plain
 biostratigraphy, B5:1–50; B11:1–73
 continental margin, A:8–12
 Jurassic calcareous nannofossils, B7:1–24
 rifting, A:7
 tochilinite, B2:3–4
 turbidites, B6:1–11
Iberia Abyssal Plain S
 deformation, A:10–15
 structural data, A:98–102
Iberia Margin W
 geochemistry, B10:1–20
 rifting, A:8–12

Iberia W, continental margin, A:7–12; B(synopsis):1–36
igneous rocks. *See* meta-igneous rocks
illite
 breccia matrix, B1:3–5
 lithologic units, A:75, 112–114
 vs. depth, B1:7
ilmenite
 amphibolite, A:130–131
 amphibolite clasts, A:190–191
 meta-anorthosite clasts, A:191
 metagabbro clasts, A:191
 metasediments, A:246–249
 pegmatite, A:280
 photomicrograph, A:283, 289
 ilmenite, subhedral, alteration, A:245–249
ilmenite porphyroblasts, photomicrograph, A:251
inclusions
 metagabbro clasts, A:191
 metatonalite clasts, A:191
 photomicrograph, A:133
 See also mineral inclusions
index properties
 acoustic basement, A:210–211
 sediments, A:90–93, 152–153, 207–208, 210, 252–253, 255, 292
intraclasts, photograph, A:119, 239
iron hydroxides
 serpentinized peridotite, A:192–193
 See also iron oxyhydroxides
iron number/magnesium oxide ratio
 amphibolite, A:133
 vs. depth, A:140
iron oxide
 breccia clasts, A:196
 breccia clasts and matrix, A:194
 veins, A:144–145
iron oxyhydroxides
 photograph, A:170
 tectonic breccia, A:132
 See also iron hydroxides
isostasy, rifting, A:7

J

Jaramillo Subchron, magnetostratigraphy, B11:9–13
Jurassic
 biostratigraphy, A:77, 79–81, 117–120, 241–244
 calcareous nannofossils, B7:1–24
 lithologic units, A:74–77
 unconformities, B7:14
 See also Bathonian; Kimmeridgian; Kimmeridgian–Portlandian; Tithonian
Jurassic, Middle–Upper
 paleomagnetic characteristics, A:83–84
 structural data, A:98–102
Jurassic, Upper
 basement, A:14
 biostratigraphy, A:177–182
 lithologic units, A:238, 240–241
 lithostratigraphy, A:175–177
 palynology, A:103–104

K

Kimmeridgian, lower, palynology, A:103–104
 Kimmeridgian–Portlandian, palynomorphs, A:263
 Koenigsberger ratio, remanent magnetization, B8:7

L

labradorite, metagabbro clasts, A:191
 laminations
 carbonates, A:174–175
 lithologic units, A:110, 112–114
 metasediments, A:246–247
 photograph, A:82–83
 See also cross laminations
 lanthanum
 amphibolites, B10:5
 vs. lanthanum/ytterbium ratio, B10:13
 lanthanum/ytterbium ratio
 amphibolites, B10:5
 vs. lanthanum, B10:13
 lava, basement, A:13
 leucocratic rock, X-ray diffraction data, A:285
 leucocratic texture, metagabbro clasts, A:191
 leucogabbro, basement, A:13
 lherzolite
 heterogeneity, A:212, 215–217; B(synopsis):11
 spinel, A:12
 limestone
 clasts, A:256–258
 lithologic units, A:74–77, 238
 photograph, A:119, 238–240
 photomicrograph, A:80
 limestone, shallow-water
 lithologic motifs, A:173–174
 lithologic units, A:71–73
 photograph, A:230
 photomicrograph, A:174
 lineation, Unit II, A:197
 lithoclasts, photomicrograph, A:79
 lithofacies, turbidites, B6:1–11
 lithologic motifs
 composition, A:168–177
 distribution in Unit II, A:169
 Unit II, A:229
 lithologic units
 definition, A:127, 168–177, 225–241, 269–273
 photograph, A:236
 relationships between Units II, IV and V, A:235
 relationships between Units IIC, III and IV, A:273
 Site 1065, A:70–77
 Site 1069, A:110, 112–114
 summary of Units II and V, A:75
 Unit II, A:71–74, 168–175, 225–234
 Unit IIC, A:269–272
 Unit III, A:272
 Unit IV, A:175–177, 234–236, 273
 Unit V, A:74–77, 236–241
 Units II, IV and V, A:228
 well-logging, A:212
 lithology

Unit IV, A:186
 well-logging, A:51–61
 lithosphere, rifting, A:7
 lithostratigraphy
 Site 1065, A:70–77
 Site 1067, A:110, 112–114
 Site 1068, A:165–177
 Site 1069, A:225–241
 Site 1070, A:269–273
 lizardite
 breccia clasts and matrix, A:195
 peridotite, A:189–190
 serpentinized peridotite, A:192–193
 veins, A:203
 load casts, photograph, A:83
 loss on ignition, breccia clasts, A:196
 Lusitanian Basin, rifting, A:8–12

M

Maastrichtian
 biostratigraphy, A:177–182; B5:6, 10
 planktonic foraminifers, B9:1–13
 sedimentation, A:216–217
 mafic rocks, basement, A:155–156
 maghemite, peridotite, B8:11
 magmatism, synrift, reflectors, A:10–11, 19; B(synopsis):
 10–12
 magnesium, pore water, A:90
 magnesium number
 amphibolite, A:133; B10:4
 breccia clasts, A:196
 serpentinized peridotite, A:196, 284
 vs. depth, A:140
 vs. nickel, A:140, 198
 vs. rare earths, B10:14–16
 vs. titanium oxide, A:140, 198; B10:11
 magnesium oxide
 serpentinized peridotite, A:196, 284
 vs. aluminum oxide, A:199, 286
 vs. titanium oxide, A:199, 286
 See also iron number/magnesium oxide ratio
 magnetic anomalies, basement, A:14–19; B(synopsis):29
 magnetic data, basement Subunit 1B, A:203
 magnetic declination
 conglomerate test from Unit V, A:248
 vs. depth, A:84–86
 magnetic inclination
 conglomerate test from Unit V, A:248
 foliation planes, A:126
 Jurassic–Cretaceous, A:185
 magnetostratigraphy, B11:21–23
 metamorphic rocks, A:124
 sediments, A:276
 vs. depth, A:84–86, 125, 183–184, 246, 277; B8:18;
 B11:29, 35, 39, 43, 46, 50, 54
 magnetic intensity
 magnetostratigraphy, B11:19–23
 remanent magnetization, B8:5–6
 sediments, A:275–276
 vs. depth, A:84, 86, 123, 182, 245, 276; B8:17; B11:29

- magnetic polarity
 - transitions, B11:2–3
 - vs. depth, B11:35, 39, 43, 50, 54
- magnetic properties
 - low temperature, B8:8–9, 27–32
 - sediments, A:182
- magnetic reversals, sediments, B11:18–22, 73
- magnetic susceptibility
 - acoustic basement, A:210
 - magnetostratigraphy, B11:19–23
 - metasediments, A:252
 - natural remanent magnetization intensity, A:84, 121
 - peridotite, B8:9
 - remanent magnetization, B8:5–6
 - sediments, A:151, 153, 206–207, 244, 276, 291–292
 - vs. depth, A:86, 124, 151, 206–207, 245, 254, 291
 - vs. temperature, B8:26
- magnetic susceptibility, low-field, remanent magnetization, B8:7–8
- magnetic susceptibility, volume, vs. depth, A:183, 185, 276; B8:17
- magnetite
 - clasts, A:284
 - magnetic properties, B8:8–9
 - magnetostratigraphy, B11:19–23
 - serpentinized peridotite, A:192–193
 - tectonic breccia, A:132
- magnetization
 - foliation, A:250–251
 - metasediments, A:252
- magnetostratigraphy
 - Cenozoic, B11:1–73
 - claystone, A:121, 124
 - Eocene–Jurassic, A:244
 - lower Miocene, A:81
 - magnetic polarity, A:182–183
 - Oligocene–Cretaceous, A:277
 - vs. depth, B11:35, 39, 43, 46, 50, 54
- major elements
 - amphibolite, A:139
 - amphibolites and metagabbros, B10:18
 - basement, A:133–135
 - breccia clasts, A:195–196
 - breccia matrix, A:139
 - metamorphic rocks, A:197
 - serpentinized peridotite, A:196, 284
 - serpentinized peridotite and pyroxenite, A:286
 - tonalite gneiss, A:139
- Mammoth Subchron, magnetostratigraphy, B11:13
- manganese, micronodules, A:270, 272
- mantle
 - partial melting, A:293
 - petrogenesis, B(synopsis):10–12
 - upwelling, A:17–19
 - See also* crust/mantle boundary
- mass accumulation rates
 - age vs. depth, B5:24, 26
 - Eocene, B4:1–35
 - nannofossil datums, B5:9–10
 - physical properties, B4:29
 - vs. age, B4:20
- mass flow deposits, turbidites, B6:2–4
- mass wasting deposits
 - sediments, A:12–15
 - See also* debris flows
- matrix
 - breccia, A:188–189
 - calcareous chalk, A:175–177
 - deformation, A:198–199, 285–288
 - micrite, A:176–177
 - petrology, A:279
- matrix mineralogy, breccia, B1:1–14
- Matuyama/Gauss boundary
 - magnetostratigraphy, B11:8–10, 12–13
- Matuyama Chron
 - magnetostratigraphy, B11:12–13
 - sediments, B11:8–10
 - See also* Brunhes/Matuyama boundary
- Mazagan Escarpment, rifting, A:7
- melange, basement, A:10
- mesh cell texture, serpentinized peridotite, A:192–193
- Mesozoic, rifting, A:8–12
- meta-anorthosite
 - breccia, A:188–189
 - clasts, B(synopsis):9
 - emplacement, A:137
 - geochemistry, A:195–199
 - petrography, A:131–132
 - photograph, A:188
 - photomicrograph, A:137
 - Unit 2, A:127–129
 - Unit 3, A:130
 - See also* anorthosite
- meta-arenite
 - lithologic motifs, A:173–174
 - lithologic units, A:238, 240–241
 - See also* arenite
- meta-arkose
 - petrology, A:245–249
 - See also* arkose
- meta-arkose, dolomitic, foliation and magnetization, A:252
- meta-arkose wacke
 - foliation and magnetization, A:252
 - petrology, A:245–249
 - photomicrograph, A:251
- meta-igneous rocks
 - tectonics, A:215–217
 - See also* igneous rocks
- metabasite, photomicrograph, A:192
- metabasite, chloritized, deformation, A:193
- metagabbro
 - breccia, A:188–189
 - clasts, B(synopsis):9
 - differentiation, A:155–156
 - geochemistry, A:195–199; B10:4
 - photograph, A:188
 - radioactivity, B3:2
 - Unit 2, A:127–129
 - Unit 3, A:130
 - whole-rock geochemistry, B10:1–20
 - See also* gabbro

- metagabbro, deformed, photomicrograph, A:201
- metamorphic rocks
- folds, A:143–144
 - lithologic units, A:71–73
 - lithology, A:124, 126–130
 - magnetic data, A:124
 - petrography, A:131, 187
 - See also* amphibolite; biotite schist; meta-anorthosite; meta-arenite; meta-arkose; meta-igneous rocks; metabasite; metagabbro; metasediments; meta-siltstone; metonalite; mica schist
- metamorphism
- amphibolites and metagabbros, B10:5; B(synopsis):12–15
 - clasts, A:193
 - geochemistry, A:133
 - rifting, A:217
- metamorphism, retrograde
- amphibolite, A:130–131
 - breccia, A:131–132
 - greenschist facies, A:155–156
 - meta-anorthosite, A:131
- metasediments
- clasts, A:256–258
 - lithologic units, A:238, 240–241
 - magnetization, A:252
 - petrology, A:245–249
 - photograph, A:230, 238–240
- metasiltstone
- foliation and magnetization, A:252
 - lithologic units, A:75, 77
 - petrology, A:245–249
- metatonalite. *See also* tonalite
- metatonalite, deformed, photomicrograph, A:191
- methane
- gases, A:204–205
 - headspace gases, A:92, 151, 205, 253
 - sediments, A:92, 151, 252, 290
 - vs. depth, A:205, 254
- mica
- basement, A:13
 - lithologic units, A:75
 - photomicrograph, A:251
 - siltstone, A:270
- mica schist
- basement, A:13
 - lithologic motifs, A:174
- micrite
- matrix, A:176–177
 - photograph, A:119, 178–179, 239
 - photomicrograph, A:118, 232
 - See also* sparite/micrite boundary
- micro-amphibolite, breccia, A:188–189; B10:4
- microbreccia
- deformation, A:148
 - metamorphism, A:136
 - serpentinite, A:293
- microfacies, sediments, B6:1–11
- microfaults
- lithologic motifs, A:173
 - Unit II, A:84–85
 - vs. folds, A:90
 - See also* microthrusting
- microfaults, conjugate, Unit II, A:84–85
- microfaults, normal
- photograph, A:87, 91
 - Unit II, A:84–85
- microfaults, reverse
- photograph, A:88, 91
 - Unit II, A:84–85
- microfaults, subhorizontal, Unit II, A:85
- microfaults, subvertical, Unit II, A:85
- microfolding, chrysotile veins, A:204
- microfractures, deformation, A:289
- microgabbro, basement, A:13
- micronodules, manganese, A:270, 272
- microspar
- lithologic units, A:112–114, 176–177
 - photograph, A:119, 178–179
 - photomicrograph, A:118
- microstructures
- anorthosite veins, A:141, 143
 - photomicrograph, A:201
- microthrusting, lizardite veins, A:204
- mineral inclusions, photomicrograph, A:191
- mineralogy
- breccia matrix, B1:1–14
 - metasediments, A:247–249
- Miocene
- biostratigraphy, A:77, 79–81
 - deformation, A:8
 - planktonic foraminifers, B9:1–13
 - See also* Tithonian–Miocene hiatus
- Miocene, lower, magnetostratigraphy, A:81
- Mohorovicic discontinuity, basement, A:19
- Motif 1
- composition, A:168–170, 172
 - deposition, A:234
 - photograph, A:171–172, 231–232
- Motif 2
- composition, A:168
 - deposition, A:234
 - photograph, A:170–172, 230, 236
- Motif 3, photograph, A:172
- Motif 4
- deposition, A:234
 - photograph, A:173, 230–232
- mottling, Unit 1, A:126
- Mount Gettysburg, sediments, A:11
- Mount Ormonde, sediments, A:11
- mud. *See* carbonate mud
- mudstone, photomicrograph, B6:8
- mudstone, calcareous, turbidites, B6:1–11
- multisensor track, density, A:93–94
- muscovite
- metasediments, A:246–249
 - photomicrograph, A:118, 120
- mylonite, basement, A:10
- N**
- nannofossil datums

age–depth plot, A:121, 180; B5:43, 45
mass accumulation rates, B5:9–10, 44, 46
Sites 1067–1069, B4:17
See also biostratigraphic datums

nannofossils
lithologic units, A:175–177, 273
vs. depth, B11:35, 39, 43, 46, 50, 54

nannofossils, calcareous
biostratigraphy, A:79–81, 117–119, 180–182, 242–243, 274–275; B5:1–50
Eocene, B4:1–35
Jurassic, B7:1–24
light micrographs, B7:20, 23–24
scanning electron micrographs, B7:21–22
stratigraphic distribution, A:122; B4:21, 23, 25; B5:28–42; B7:17–18

Neel temperature, magnetic properties, B8:9

neoblasts
amphibolite, A:139
amphibolite clasts, A:190–191
basement, A:13
clasts, A:199–201
metasediments, A:246–247
metatonalite clasts, A:191
photomicrograph, A:191, 201
tonalite gneiss, A:131, 141

neutron porosity logs, lithology, A:51–61

Newfoundland Basin, rifting, A:7

nickel
breccia clasts, A:195
vs. magnesium number, A:140, 198

niobium, amphibolite, A:133

nitrogen
sediments, A:88, 92, 150, 204, 252–253, 290
See also carbon/nitrogen ratio

nodules. *See* micronodules

North Atlantic Rifted Margins Detailed Planning Group, rifting, A:7

Nunivak Subchron, magnetostratigraphy, B11:13

O

ocean/continent transition
deformation, A:7–20
Eocene marker bed, B11:64
mantle, A:293

Olduvai Subchron, magnetostratigraphy, B11:9, 11–13

Oligocene, lower, lithologic units, A:269–272

Oligocene–Cretaceous, magnetostratigraphy, sediments, A:277

olistostrome, basement, A:12

olivine
clasts, A:189–190, 283–284
photograph, A:281
photomicrograph, A:283
serpentinized peridotite, A:280–282

ooze, calcareous, well–logging, A:51–61

ooze, nannofossil, turbidites, B6:1–11

ophitic texture, photomicrograph, A:133

orthopyroxene
photograph, A:281

serpentinized peridotite, A:280–282

Ossa Morena Zone, basement, A:10

overgrowths, lithologic units, A:112–114

overlap, biostratigraphy, B7:5–8

overprinting
amphibolite clasts, A:190–191
breccia, A:201
cataclasts, A:199
foliation, A:148
tonalite gneiss, A:131

P

packstone, lithologic units, A:234

packstone/chalk, foraminiferal–peloidal, photomicrograph, A:233

packstone, intraclast, photomicrograph, A:80

packstone, peloidal, photomicrograph, A:78, 233

Paleocene
biostratigraphy, A:177–182, 241–244; B5:1–50
conglomerate, A:114
lithologic units, A:225–234
lithostratigraphy, A:165–175
magnetostratigraphy, A:121, 124; B11:21–23
nannofossil distribution, B5:28–33, 35–38
planktonic foraminifers, B9:1–13

Paleocene, lower(?)–upper, lithologic units, A:110, 112–114

Paleocene/Eocene boundary
glauconite, B6:3
magnetic intensity, A:217
magnetostratigraphy, B11:15, 19–22

paleoecology, nannofossils, B7:6–8

paleoenvironment
deposition, A:270, 272–273
palynology, A:104

Paleogene, biostratigraphy, A:273–275

paleolatitude
magnetic polarity, B11:17–18, 72
structural data, A:98–102

paleomagnetism
biostratigraphic datums, B11:57, 60, 63, 67, 69, 71
magnetostratigraphic data, B11:56, 58–69, 61–62, 65, 67–68, 70
peridotite, B8:1–34
Site 1065, A:81, 83–84
Site 1067, A:121, 123–124
Site 1068, A:182–185
Site 1069, A:244–245
Site 1070, A:275–277

palynology
Site 1065, A:103–104
Site 1069, A:263

palynomorphs
abundance, A:104
abundance chart, A:263
Kimmeridgian–Portlandian, A:263

partial melting
mantle, A:17, 293
spinel facies, A:215

pebbles

- lithologic units, A:71–74, 112–114
- photograph, A:76, 176–179
- photomicrograph, A:78
- Unit II thin sections, A:77
- pebbles, matrix-supported, photograph, A:119
- pegmatite. *See also* gabbro, pegmatitic
- pegmatite, gabbro, photomicrograph, A:289
- pelagite, lithologic units, A:73–77, 234–236, 273
- pelite
 - lithologic motifs, A:173–174
 - lithologic units, A:74–77
 - photograph, A:230, 240
 - photomicrograph, A:80, 174
- peloids
 - photograph, A:238–240
 - photomicrograph, A:233
- peridotite
 - basement, A:10, 19; B(synopsis):4–5
 - heterogeneity, A:212, 215–217
 - petrology, A:189–190
 - ridges, A:15
 - rock magnetism, B8:1–34
 - serpentinization, A:189–190, 293
 - spinel, A:12
 - thermomagnetism, B8:25
- peridotite, serpentinized
 - clasts, A:279
 - deformation, A:290
 - geochemistry, A:196–197, 199, 285–286
 - petrology, A:280–282; B(synopsis):10–13
 - photograph, A:190, 281, 287
 - photomicrograph, A:283–284, 289
 - structural data, A:201–203
 - thermal demagnetization, A:185
 - Unit 1, A:192–193
- petrography
 - chloritized metabasite clasts, A:191–192
 - lithologic motifs, A:173–174
 - lithologic units, A:71–73, 75, 112–114
 - meta-anorthosite clasts, A:191
 - metagabbro clasts, A:191
 - metamorphic rocks, A:130–132, 187
 - metasediments, A:246–249
 - metatonalite clasts, A:191
 - pegmatitic gabbro, A:283
 - serpentinite, A:190–192
 - serpentinite tectonic breccia, A:282–283
 - serpentinized peridotite, A:283–284
 - siltstone, A:270, 272–273
 - Unit IV, A:176–177
- petrology
 - Site 1067, A:124, 126–135
 - Site 1068, A:186–196
 - Site 1069, A:245–249
 - Site 1070, A:277–285
- phase equilibria, tochilinite, B2:8
- photoelectric effect, vs. gamma rays, A:51
- photoelectric effect logs
 - lithology, A:51–61
 - vs. depth, A:97, 214, 261
- phyllosilicates, metasediments, A:247–249
- physical properties
 - acoustic basement, A:210–211
 - mass accumulation rates, B4:29
 - Site 1065, A:90–94
 - Site 1067, A:151–155
 - Site 1068, A:205–211
 - Site 1069, A:252–254
 - Site 1070, A:290–293
- plagioclase
 - amphibolite, A:130–131
 - amphibolite clasts, A:190–191
 - anorthosite veins, A:141, 143
 - basement, A:13
 - breccia, A:188–189
 - breccia clasts and matrix, A:193–194
 - breccia matrix, A:193; B1:3–5
 - clasts, A:279
 - deformation, A:200, 289
 - foliation, A:200
 - geochronology, B(synopsis):17
 - meta-anorthosite, A:131
 - meta-anorthosite clasts, A:191
 - metagabbro clasts, A:191
 - metasediments, A:246–249
 - metatonalite clasts, A:191
 - pegmatite, A:280
 - peridotite, A:10
 - photograph, A:128, 280
 - photomicrograph, A:133, 191, 283
 - serpentinized peridotite, A:192–193
 - tectonic breccia, A:132
 - tonalite gneiss, A:131
 - Unit 1, A:126
 - Unit 2, A:127–129
 - veins, A:132
 - vs. depth, B1:7, 11
 - See also* albite; andesine; anorthite; labradorite; undulatory extinction
- plagioclase, euhedral
 - amphibolite, A:130–131
 - photomicrograph, A:135
- plagioclase, polygonal aggregate, photomicrograph, A:201
- plagioclase, recrystallized, photomicrograph, A:201
- plagioclase, strained porphyroclast, photomicrograph, A:201
- plagioclase pods, Unit 3, A:130
- plagiogranite, basement, A:13
- Planolites?*
 - lithologic motifs, A:168
 - lithologic units, A:110, 112–114
- plant debris
 - lithologic units, A:75
 - photograph, A:82–83
- plate tectonics
 - deformation, A:8–12
 - magnetostratigraphy, B11:21–23
 - reconstruction, A:10
- Pleistocene
 - magnetostratigraphy, B11:8–10, 19–22
 - See also* Pliocene/Pleistocene boundary

Pliocene, magnetostratigraphy, B11:8–10, 19–22
 Pliocene/Pleistocene boundary, magnetostratigraphy, B11:13
 poikilitic texture
 metatonalite clasts, A:191
 pegmatite, A:280
 photomicrograph, A:191
 pore water, geochemistry, A:88, 90, 151, 205–206, 290
 porosity
 acoustic basement, A:210–211
 metamorphic rocks, A:153
 sediments, A:90–91, 93, 253, 292
 vs. depth, A:93, 152, 207, 210, 254, 291
 vs. velocity, A:154–155, 209, 211, 257
 porosity logs, vs. depth, A:97, 214, 261
 porphyroclasts
 amphibolite clasts, A:190–191
 basement, A:13
 deformation, A:200–201
 foliation, A:148
 metatonalite clasts, A:191
 photograph, A:76
 tonalite gneiss, A:131, 141
See also ilmenite porphyroblasts
 Portlandian, palynology, A:103–104
 potassium
 basement, B3:2
 pore water, A:88, 90
 potassium logs, vs. depth, A:96, 213, 260
 preferred orientation
 clasts, A:199–201
 metatonalite clasts, A:191
 photomicrograph, A:192, 201
 phyllosilicates, A:199
 serpentinized peridotite, A:192–193
 prehnite, clasts, A:283
 pressure–temperature conditions, metamorphism, B(synopsis):16–17, 34
 protolith
 amphibolites and metagabbros, B10:6
 dunite, A:192–193
 mineralogy in basement Unit I, A:190
 peridotite, A:189–190
 serpentinized peridotite, A:280–282
 Unit 2, A:128
 protolith, gabbroic, amphibolite, A:155–156
 pseudomorphs
 clasts, A:189–190, 283–284
 photograph, A:281
 pyroxene, A:293
 serpentinized peridotite, A:192–193
 pseudotachylite, foliation, A:148
 Pyrenean Orogeny, deformation, A:8
 pyrite
 accessory minerals, A:245–249
 lithologic units, A:75
 metasediments, A:246–249
 pyrite stringers, photomicrograph, A:251
 pyroxene
 clasts, A:189–190
 photograph, A:190

pseudomorphs, A:293

See also clinopyroxene; orthopyroxene

pyroxene, pseudomorphed, photograph, A:289

pyroxenite, spinel, A:12

pyroxenite, serpentinized, geochemistry, A:285–286

pyroxenite, serpentinized olivine, photograph, A:281

pyrrhotite

amphibolite clasts, A:190–191

magnetic properties, B8:8–9

meta-anorthosite clasts, A:191

Q

quartz

amphibolite, A:130–131

breccia clasts and matrix, A:193–194

breccia matrix, B1:3–5

lithologic units, A:71–73, 75

metasediments, A:246–249

metatonalite clasts, A:191

photomicrograph, A:120, 191

siltstone, A:270

tonalite gneiss, A:131, 141

Unit 1, A:126

veins, A:132

vs. depth, B1:7, 11

quartz, detrital, photomicrograph, A:249

quartz aggregates, Unit 1, A:126

quartz crystals, photomicrograph, A:251

quartz ribbons, Unit 1, A:126

quartzofeldspathic material

tonalite gneiss, A:131

Unit 2, A:128

R

radioactivity, basement, B3:2

radiolarians, biostratigraphy, A:120

rare earths

amphibolites and metagabbros, B10:5–6, 14–16, 19–20; B(synopsis):10

metagabbro, B10:17

vs. magnesium number, B10:14–16

vs. strontium, B10:14–16

vs. titanium, B10:14–16

vs. zirconium, B10:14–16

recrystallization

amphibolite clasts, A:190–191

anorthosite veins, A:141, 143

basement, A:13

clasts, A:199–201

folds, A:143–144

meta-anorthosite, A:131

meta-anorthosite clasts, A:191

photomicrograph, A:201, 283, 289

quartz-rich veins, A:147–148

tonalite gneiss, A:131, 141

reflectors, synrift magmatism, A:10–11

relict texture

amphibolite, A:130–131, 139

amphibolite clasts, A:190–191

- anorthosite veins, A:141, 143
- chloritized metabasite clasts, A:191–192
- meta-anorthosite, A:131
- photomicrograph, A:135
- serpentinized peridotite, A:192–193
- tonalite gneiss, A:131, 141
- remagnetization, cores, B11:6–8
- remanent coercivity, hysteresis, B8:8
- remanent magnetization, characteristic, cores, B11:7–8
- remanent magnetization, chemical, sediments, B11:18
- remanent magnetization, isothermal
 - cores, B11:8
 - magnetic properties, B8:9
- remanent magnetization, natural
 - magnetic intensity, A:183, 185; B8:5–6; B11:6–8
 - sediments, A:244, 275–276
- remanent magnetization, viscous
 - bedding, A:136–138
 - foliation, A:202
 - magnetic inclination, A:278
 - magnetic intensity, A:183, 185
- resedimentation, lithologic units, A:238
- resistivity logs
 - lithology, A:51–61
 - vs. depth, A:97, 214–215, 261
- retrometamorphism
 - basement, A:13
 - tectonics, A:217
- Réunion Subchron, magnetostratigraphy, B11:9
- Rhaxella* sponge spicules, photomicrograph, A:233
- Rif–Betic mountains, deformation, A:8
- Rift margins, nontectonic, metamorphism, B(synopsis):18–19
- rift tectonics, Jurassic, B7:1–24; B(synopsis):18–19
- rifting
 - lithosphere, A:7; B(synopsis):1–36
 - metamorphism, A:217
 - propagation, A:18
 - tectonics, A:215–217
- rock flour, Unit 2, A:127–129
- rock magnetics, peridotite, B8:1–34
- rockfall deposits, tectonics, A:216–217
- rudstone
 - lithologic units, A:238
 - photograph, A:239
- S**
- salinity, quartz-rich veins, A:148
- sand, photomicrograph, A:231–232
- sand, coarse, photograph, A:274
- sand, lithoclastic, lithologic units, A:74–77
- sand, quartz, well-logging, A:51–61
- sandstone
 - lithologic motifs, A:168–172
 - lithologic units, A:74–77
 - photograph, A:173, 231–232
 - sediments, A:13
 - turbidites, B6:1–11
 - See also* siltstone/sandstone alternation
- sandstone, calcareous
 - lithologic units, A:110, 112–114, 228–234
 - photograph, A:171, 230
 - proportions, A:119
- sandstone, calcareous foraminiferal
 - lithologic motifs, A:172
 - lithologic units, A:228
- sandstone, calcareous siliciclastic, photomicrograph, A:232
- sandstone, calcite-cemented siliciclastic, lithologic units, A:234
- sandstone, carbonate, lithologic units, A:234
- sandstone, clayey, photograph, A:274
- sandstone, foraminiferal
 - lithologic units, A:234
 - photograph, A:173
- sandstone, laminated calcareous, photomicrograph, A:118
- sandstone, lithic, lithologic units, A:234
- sandstone, lithic carbonate, photograph, A:231
- sandstone, lithoclastic
 - lithologic motifs, A:172–173
 - photomicrograph, A:79–80, 174
- sandstone, micritic foraminiferal, photograph, A:173
- saturation magnetization, hysteresis, B8:8
- saturation remanence
 - hysteresis, B8:8
 - vs. temperature, B8:23–24
- schist. *See* biotite schist; mica schist
- seafloor spreading, rifting, A:7–19, B(synopsis):16–17
- sedimentary basins, rifting, A:7
- sedimentary rocks, deformation, A:136–138
- sedimentation
 - Cenozoic, A:100–102
 - Maastrichtian, A:216–217
 - upper Aptian, A:293
 - Valanginian–Campanian, A:258
- sedimentation rates
 - Eocene, A:174–175
 - magnetostratigraphy, B11:9–11, 13, 15–16, 19–23
- sedimentation rates, linear
 - Eocene, B4:8–9
 - nannofossil datums, B5:9–10
- sediments
 - index properties, A:153
 - lithology and structure, B6:9–11
 - magnetic properties, A:182
 - See also* basement/sediment contact
- seismic facies, structural data, A:98–102
- seismic profiles
 - continental margin, A:16, 23; B(synopsis):32–33
 - Site 1065, A:68–69
 - Site 1067, A:109, 113, 157–158, 160–161
 - Site 1069, A:223–224
 - Site 1070, A:270
- seismic reflection
 - basement, A:8–12, 16–18; B(synopsis):14–15
 - prestack depth migration, A:157–158
- sericite
 - breccia, A:131–132
 - breccia matrix, A:193
 - clasts, A:282–283

- meta-anorthosite, A:131
- metagabbro clasts, A:191
- metasediments, A:246–249
- metatonalite clasts, A:191
- sericitization
 - deformation, A:289
 - meta-anorthosite clasts, A:191
- serpentine
 - basement, A:13
 - breccia matrix, B1:3–5
 - clasts, A:189–190
 - photograph, A:190, 281
 - serpentinized peridotite, A:192–193, 280–282
 - tochilinite, B2:1–9
 - veins, A:203
 - vs. depth, B1:7, 11
 - See also* chrysotile; lizardite
- serpentinite
 - chloritized metabasite clasts, A:191–192
 - clasts, A:282
 - magnetic properties, A:183, 185
 - microbreccia, A:293
 - mineralogy in basement Unit I, A:190
 - photomicrograph, A:192, 282
 - serpentinized peridotite, A:280–282
 - X-ray diffraction data, A:194, 196, 285
- serpentinization
 - basement, A:11–12
 - deformation, A:202–203, 290
 - peridotite, A:293
 - peridotite protolith, A:189–190
- shear zones
 - mantle, A:17, 19
 - Unit II, A:84–85
- shear zones, ductile, metamorphism, A:155–156
- shells
 - photomicrograph, B6:8
 - turbidites, B6:3
- Sidufjall Subchron, magnetostratigraphy, B11:13
- silica, amphibolite, A:133
- silica, cryptocrystalline, Unit 2, A:127–129
- siliciclastics
 - lithologic units, A:234
 - turbidites, B6:7
- silt, well-logging, A:51–61
- silt, calcareous, well-logging, A:51–61
- siltstone
 - lithologic units, A:74–77
 - petrography, A:270
 - source, A:155–156
 - turbidites, B6:1–11
 - well-logging, A:51–61
- siltstone, calcareous
 - lithologic motifs, A:173
 - lithologic units, A:110, 112–114
 - proportions, A:119
 - well-logging, A:51–61
- siltstone, calcareous sandy
 - lithologic motifs, A:173
 - lithologic units, A:228–234
 - photograph, A:170–173, 230–231
- siltstone, calcareous silty, lithologic motifs, A:168–170
- siltstone, sandy, photograph, A:117
- siltstone/sandstone alternation, color, A:137–138
- Site 398D, biostratigraphy, B4:8; B5:8–9
- Site 873, size variations of *Watznaueria barnesae*, B7:19
- Site 874, size variations of *Watznaueria barnesae*, B7:19
- Site 877, size variations of *Watznaueria barnesae*, B7:19
- Site 897
 - basement, A:12, 17
 - magnetic polarity, B11:6–10
 - serpentinized harzburgite, A:199
- Site 898, magnetic polarity, B11:6–8, 10–11
- Site 899
 - basalt and diabase, B10:4
 - basement, A:12
 - metamicrogabbro, A:134, 198
 - rare earths, B10:17
- Site 900
 - basement, A:13, 17
 - magnetic polarity, B11:6–8, 11–14
 - metagabbro, A:134, 198
 - rare earths, B10:17
- Site 900A, biostratigraphy, B4:8
- Site 901, basement, A:14, 17; B(synopsis):8
- Site 1065, A:65–104
 - background and objectives, A:66, 68
 - biostratigraphy, A:77–81; B7:3–4; B9:3
 - coring, A:71
 - downhole measurements, A:49–54, 94–98
 - Jurassic calcareous nannofossils, B7:1–24
 - lithostratigraphy, A:70–77
 - operations, A:68–70
 - organic and inorganic geochemistry, A:87–88, 90
 - paleomagnetism, A:81, 83–84
 - palynology, A:103–104
 - physical properties, A:90–94
 - site description, A:65–104
 - size variations of *Watznaueria barnesae*, B7:19
 - structural geology, A:84–87
 - summary and conclusions, A:98–102
- Site 1066, A:105
 - operations, A:105
 - site description, A:105
- Site 1067, A:107–161
 - amphibolite and tonalite gneiss, A:198
 - background and objectives, A:108–109
 - biostratigraphy, A:114–121; B4:4–6; B5:5; B9:3
 - coring, A:114
 - heat flow, B3:1–4
 - lithostratigraphy, A:110, 112–114
 - magnetic polarity, B11:6–8, 14–15
 - operations, A:109–110
 - organic and inorganic geochemistry, A:148, 150–151
 - paleomagnetism, A:121, 123–124; B8:1–34
 - petrology, A:124, 126–135
 - physical properties, A:151–155
 - prestack depth migration of seismic reflection profiles, A:157–158
 - site description, A:107–161
 - structural geology, A:135–148
 - summary and conclusions, A:155–156

- Site 1068, A:163–218
background and objectives, A:164
biostratigraphy, A:177–182; B4:6–7; B5:5–7; B9:3–4
breccia matrix mineralogy, B1:1–14
coring, A:165
downhole measurements, A:54–57, 211–212
heat flow, B3:1–4
lithostratigraphy, A:165–177
magnetic polarity, B11:6–8, 15–16
operations, A:165
organic and inorganic geochemistry, A:203–205
paleomagnetism, A:182–185; B8:1–34
petrology, A:186–196
physical properties, A:205–211
sedimentation, B5:9
site description, A:163–218
structural geology, A:196–203
summary and conclusions, A:212, 215–217
tochilinite, B2:1–9
turbidites, B6:1–11
- Site 1069, A:219–263
background and objectives, A:220–221, 223
biostratigraphy, A:241–244; B4:7–8; B5:7–8; B7:4–5; B9:4
coring, A:225
downhole measurements, A:54, 57–61, 254–256
Jurassic calcareous nannofossils, B7:1–24
lithostratigraphy, A:225–241
magnetic polarity, B11:6–8, 16–17
operations, A:223, 225
organic and inorganic geochemistry, A:251–252
paleomagnetism, A:244–245; B8:1–34
palynology, A:263
petrology, A:245–249; B(synopsis):8
physical properties, A:252–254
sedimentation, B5:9–10
site description, A:219–263
structural geology, A:249–251
summary and conclusions, A:256–258
turbidites, B6:1–11
- Site 1070, A:265–294
background and objectives, A:266, 268
biostratigraphy, A:273–275; B9:4–5
coring, A:270
lithostratigraphy, A:269–273
operations, A:268–269
organic and inorganic geochemistry, A:290
paleomagnetism, A:275–277; B8:1–34
petrology, A:277–285
physical properties, A:290–293
site description, A:265–294
structural geology, A:285–290
summary and conclusions, A:293
- slate, lithologic units, A:75, 77, 238, 240–241
- slickensides
photograph, A:149
Unit 2, A:127–129
Unit II, A:197
- slump faults, Unit II, A:85
- slump folds
metasediments, A:249–250
photograph, A:88
Unit II, A:84–85, 197
- slumps
lithologic motifs, A:173
lithologic units, A:71–74, 234–236
photograph, A:76
- smectite
clasts, A:284
photomicrograph, A:283
- sodium, pore water, A:90
- soft sediment deformation
photograph, A:87, 172
Unit V, A:86
- spar. *See* microspar
- sparite, photograph, A:274
- sparite cement, photomicrograph, A:233
- sparite/micrite boundary, geometry, A:238
- spheroids, photomicrograph, A:288
- spinel
clasts, A:283–284
metagabbro clasts, A:191
photomicrograph, A:192
serpentinized peridotite, A:192–193
- spinel, relict, photograph, A:190
- spinel facies, partial melting, A:215
- spinel peridotite, protolith, A:192–193
- “spirit-level structure”, lithologic units, A:238
- sponge spicules, photomicrograph, A:233
- sponge spicules, chaetid, photograph, A:238
- stress fields, Unit II, A:85
- strontium
amphibolite, A:134
amphibolites and metagabbros, B10:5
breccia clasts, A:195
vs. depth, A:140
vs. rare earths, B10:14–16
- strontium/strontium number ratio, amphibolites and metagabbros, B10:5
- strontium number. *See* strontium/strontium number ratio
- structural data
basement, A:150
basement Subunit 1B, A:203
Formation Microscanner imagery, A:98
measurements, A:89–90, 143
- structural geology
Site 1065, A:84–87
Site 1067, A:135–148
Site 1068, A:196–203
Site 1069, A:249–251
Site 1070, A:285–290
- stylolites
lithologic units, A:228–234
metasediments, A:249–250
- subgreenschist facies, metasediments, A:246–249
- subophitic texture
metagabbro clasts, A:191
photograph, A:129
- subsidence, sedimentary basins, A:7
- sulfate, pore water, A:88, 90
- sulfur, sediments, A:88

synrift melting, basement, A:155–156

T

Tagus Abyssal Plain

- continental margin, A:8–12
- deformation, A:11–12

talc, photograph, A:281

tectonics

- breccia, A:201
- magmatism, B(synopsis):12–15
- seismic profiles, B(synopsis):33

tectonics, postrift, turbidites, B6:4

Teichichnus

- lithologic units, A:71–74
- photograph, A:82

temperature

- boreholes, A:212, 256
- gradient, A:98
- vs. depth, A:98, 216, 262

Tertiary. *See also* Cretaceous/Tertiary boundary

Tertiary, lower, turbidites, B6:1–11

textures

- metasediments, A:246–247
- See also* fibrous texture; granoblastic texture; hypidiomorphic texture; leucocratic texture; ophitic texture; poikilitic texture

thermal conductivity

- acoustic basement, A:210
- metamorphic rocks, A:154
- sediments, A:92
- vs. depth, A:93

thermal metamorphism, basement, A:11

thermomagnetics, peridotite, B8:25

tholeiite, Jurassic, A:8–12

thorium, basement, B3:2

thorium logs, vs. depth, A:96, 213, 260

Thvera Subchron, magnetostratigraphy, B11:13

titanite

- amphibolite, A:130–131, 138–139
- meta-anorthosite clasts, A:191
- tonalite gneiss, A:131

titanium

- amphibolite, A:133
- amphibolites and metagabbros, B10:5
- vs. rare earths, B10:14–16

titanium oxide

- amphibolite, A:133; B10:4
- serpentinized peridotite, A:196, 284
- vs. depth, A:140
- vs. magnesium number, A:140, 198; B10:11
- vs. magnesium oxide, A:199, 286
- vs. zirconium, A:198

Tithonian

- basement, A:10, 14
- clay, A:256–258
- lithologic units, A:74–75, 238, 240–241
- paleoecology, B7:6–8
- unconformities, B7:14

Tithonian–Miocene hiatus, sedimentation, A:100–102

tochilinite

backscattering electron photomicrograph, B2:7

breccia clasts and matrix, A:195; B2:1–9

chemical composition, B2:8–9

intergrowths with andradite, B2:2

phase equilibria, B2:8

veins, A:203

tonalite

breccia, A:131–132

photomicrograph, A:144

See also metatonalite

tonalite gneiss

emplacement, A:137

foliation, A:139–141

geochemistry, A:133–135, 139–141, 198

heat flow, B3:2

mineralogical evolution, A:136

petrography, A:131

photograph, A:128–129

photomicrograph, A:136

Unit 1, A:124, 126–127

Unit 2, A:127–129

total tectonic subsidence, reflectors, A:11

tourmaline, metasediments, A:246–249

trace elements

amphibolite, A:139–141

amphibolites and metagabbros, B10:19–20; B(synopsis):10

basement, A:133–135

breccia clasts, A:195–196

breccia matrix, A:139

metamorphic rocks, A:197

serpentinized peridotite, A:196, 284

serpentinized peridotite and pyroxenite, A:286

tonalite gneiss, A:139–141

transport, lithologic units, A:74

traveltime, two-way

composite chart, B7:13

contour chart, A:70, 112, 221, 268

tremolite, clasts, A:282–283

turbidite

deformation, A:136–138

deposition, A:114, 234

Eocene, B4:1–3

Late Cretaceous to early Tertiary, B5:10–11; B6:1–11

lithologic units, A:269–273

photograph, A:231

sedimentation, A:293

turbidite, carbonate, lithologic units, A:228–234, 269–272

turbidity currents, carbonates, A:174–175; B5:12

turbidity flows, photograph, A:170

U

ugrandite, breccia clasts and matrix, A:195

ultracataclasite, foliation, A:148

unconformities

deposition, A:177

Jurassic, B7:14

See also breakup unconformity; hiatuses

underplating, basement, A:11

undulatory extinction, clasts, A:199–201

Unit 1

- geochemistry, A:195–196
- metamorphic rocks, A:124, 126–127
- petrology, A:279
- serpentinite, A:186, 188–190
- serpentinized peridotite, A:192–193, 195
- structural data, A:201–203, 285–288

Unit 2, metamorphic rocks, A:127–129

Unit 2A

- deformation, A:288–290
- petrology, A:279–280
- photomicrograph, A:283

Unit 2B

- deformation, A:290
- petrology, A:280–282
- serpentinized peridotite, A:284

Unit 3, metamorphic rocks, A:129–130

Unit I

- basement, A:279
- photomicrograph, A:282
- X-ray diffraction data, A:194, 285

Unit II

- composition, A:168–175
- lithologic units, A:110, 112–114
- photograph, A:236
- photomicrograph, A:233
- structural data, A:84–85, 197, 249

Unit II/Unit V boundary, well-logging, A:101

Unit III, photograph, A:274

Unit IV

- breccia, A:175–177, 194
- clasts, A:186, 194
- composition, A:175–177, 195–196
- lithology, A:186, 188–189
- magnetic data, A:244–245
- photograph, A:236, 274
- structural data, A:197–201, 249, 285

Unit IV and Unit I, basement, A:186

Unit V

- magnetic data, A:245
- paleomagnetic characteristics, A:83–84
- structural data, A:86
- See also* Unit II/Unit V boundary

Unit VA, structural data, A:249

Unit VB

- deposition, A:256–258
- structural data, A:249–250

uranium, basement, B3:2

uranium logs, vs. depth, A:96, 213, 260

V

Valanginian

- biostratigraphy, A:177–182
- lithologic units, A:234–236
- nannofossils, A:175–177
- tectonics, A:216–217
- unconformities, B7:14

Valanginian, lower, pelagic drape, A:237

Valanginian–Campanian, hiatuses, A:256–258

valleriite, breccia, B2:1–9

vanadium

- amphibolite, A:133
- breccia clasts, A:195
- vs. depth, A:140

Varsican, basement, A:10

Variscan continental crust, basement, A:155–156

Vasco da Gama Seamount

- deformation, A:8
- lithologic units, A:74, 77
- structural data, A:98–102

vein dip, vs. depth, A:146

veining, phases, A:148

veining, retrograde, fluid–rock interaction, A:144–145

veinlets, native copper, A:279

veins

- anorthosite, A:141, 143
- breccia, A:197–201
- calcite, A:126, 279
- deformation, A:285–288
- gabbro, A:284
- geometry, A:203
- geometry by core image analysis, A:145
- lithologic units, A:175–177
- meta-anorthosite, A:131
- orientation, A:145
- petrography, A:132
- petrology, A:189–190
- photograph, A:129
- photomicrograph, A:288
- serpentinized peridotite, A:192–193, 280–282
- tochilinite, B2:7
- Unit 2, A:128
- Unit 3, A:130
- X-ray diffraction data, A:194, 196

See also epidote veins

veins, calcite

- amphibolite, A:130–131
- breccia, A:198–199
- breccia clasts and matrix, A:194–195
- conjugate sets, A:145
- dip, A:145–146
- lithologic units, A:176–177
- photograph, A:178, 200
- Unit 2, A:129

veins, chlorite

- amphibolite clasts, A:190–191
- dip, A:146
- meta-anorthosite clasts, A:191
- photomicrograph, A:145
- stereographic representation, A:146
- Unit 2, A:129

veins, chrysotile, microfolding, A:204

veins, in clasts, internal structures, A:201

veins, epidote

- amphibolite clasts, A:190–191
- clasts, A:200
- conjugate sets, A:145
- dip, A:145
- stereographic representation, A:146

veins, gabbroic, photomicrograph, A:284

veins, hydrothermal, photomicrograph, A:283
 veins, lizardite, microfolding, A:204
 veins, magmatic
 deformation, A:290
 dip, A:146
 veins, quartz, petrology, A:245–249
 veins, serpentine
 deformation, A:199
 photograph, A:281, 287
 photomicrograph, A:289
 serpentinized peridotite, A:192–193
 stereographic orientation, A:203
 veins, tonalite, Unit 1, A:126, 140
 veins, zeolite, photomicrograph, A:283
 velocity
 bulk density, A:257
 model from depth-focused analysis, A:159
 vs. bulk density, A:154–155, 209, 211
 vs. depth, A:153–154, 209, 211, 256, 292
 vs. porosity, A:154–155, 209, 211, 257
 velocity, acoustic
 metamorphic rocks, A:154–155
 sediments, A:92–93, 154
 velocity logs, vs. depth, A:97
 Verwey transition, magnetic properties, B8:9
 vesuvianite
 clasts, A:283
 deformation, A:289
 Vigo Seamount, rifting, A:7
 viscosity, lithologic units, A:74
 volcanoclastics
 sedimentation, A:293
 sediments, A:272
 vugs, photograph, A:288

W

wairakite
 clasts, A:283
 photomicrograph, A:283
 serpentinized peridotite, A:192–193
 wall-rock alteration, veining, A:144–145
 water escape structures, photograph, A:231–232
Watznaueria barnesae, size variations, B7:19
 watznaueriacid coccospheres, Site 1069, B7:22
 websterite, basement, A:11
 well-logging, lithology, A:51–54

X

X-ray diffraction data
 breccia and serpentinite, A:193–195
 breccia clasts, A:193
 breccia matrix, A:285; B1:8–14
 clasts, A:284
 Unit I serpentinites and veins, A:194, 196
 Unit IV breccia, A:194–195

Y

yttrium
 amphibolite, A:133; B10:4
 amphibolites and metagabbros, B10:5
 breccia clasts, A:195
 vs. depth, A:140
 vs. zirconium, A:141, 198; B10:12

Z

zeolites
 clasts, A:283
 photograph, A:281
 photomicrograph, A:283
 See also analcime
 zinc
 amphibolite, A:133
 vs. depth, A:140
 zircon
 amphibolite, A:130–131
 metatonalite clasts, A:191
 tonalite gneiss, A:131
 zirconium
 amphibolite, A:133; B10:4
 amphibolites and metagabbros, B10:5
 breccia clasts, A:195
 vs. depth, A:140
 vs. rare earths, B10:14–16
 vs. titanium oxide, A:198
 vs. yttrium, A:141, 198; B10:12
 zirconium number. *See* zirconium/zirconium number ratio
 zirconium/zirconium number ratio, amphibolites and metagabbros, B10:5
 zonation, calcareous nannofossils, B4:3–4; B5:5–9, 21–22
 zoning, metagabbro clasts, A:191
Zoophycos, lithologic units, A:71–74

TAXONOMIC INDEX**A**

abisectus, *Cyclicargolithus*, Site 1065, A:79
Acarinina broedermanni
 Site 1067, B9:3
 Site 1068, A:179
 Site 1069, A:243; B9:4
Acarinina bullbrookii

Site 1067, A:119
 Site 1069, A:243; B9:4
 Site 1070, A:275; B9:5
Acarinina convexa, Site 1068, A:179
Acarinina pentacamerata, Site 1067, B9:3
Acarinina primitiva, Site 1067, A:119
Acarinina soldadoensis
 Site 1067, B9:3

- Site 1068, A:179; B9:3
Site 1069, A:243
Acarinina soldadoensis angulosa, Site 1068, A:179
achylosum, *Corollithion*, Site 1070, A:275
aculeus, *Ceratolithoides*, Site 1070, A:274
Adnatospheridium caullyeri, Site 1065, A:104
aequa, *Morozovella*
Site 1068, A:179; B9:4
Site 1069, A:243
Ahmuellerella octoradiata, Site 1068, B5:49
alanii, *Fasciculithus*, Site 1069, B5:7
Alisporites spp.
Site 1065, A:104
Site 1069, A:263
altus, *Chiasmolithus*, Site 1070, A:274
Ammodiscus spp.
Site 1068, A:180
Site 1069, A:244
Site 1070, A:275
ampliaperta, *Helicosphaera*, Site 1065, A:79
angustus, *Staurolithites*, Site 1069, B5:49
Apteodinium sp., Site 1069, A:263
aragonensis, *Morozovella*
Site 1067, A:119; B9:3
Site 1068, A:179; B9:3
Site 1069, A:243; B9:4
Araucariacites australis
Site 1065, A:104
Site 1069, A:263
Arkhangelskiella cymbiformis
Site 1065, A:81
Site 1068, B5:6, 49
Assipetra infracretacea, Site 1069, A:242
atmetros, *Stephanolithion*, Site 1065, B7:2
attenuatus, *Micrantholithus*, Site 1065, A:81
attenuatus, *Micrantholithus* aff., Site 1065, A:81
aubertae, *Fasciculithus*, Site 1068, B5:47
australis, *Araucariacites*
Site 1065, A:104
Site 1069, A:263
Axopodorhabdus cylindratus, Site 1069, A:243; B7:23
Axopodorhabdus sp., Site 1069, B7:23
- B**
- barbadiensis*, *Discoaster*
Site 1067, B4:5–6
Site 1068, B4:6–7
Site 1069, B4:7
Site 1070, A:274–275
barnesae, *Watznaueria*
Site 1065, B7:7, 19
Site 1068, A:181–182; B5:6
Site 1069, B7:22
Site 1070, A:275
Bathysiphon spp.
Site 1067, A:119
Site 1068, A:180
Site 1069, A:244
Site 1070, A:275
belemnus, *Sphenolithus*, Site 1065, A:80
- bermudezi*, *Nannoconus*
Site 1068, A:181–182
Site 1069, A:242
Biantholithus sparsus
Site 1068, A:181
Site 1069, B5:7
bifax, *Discoaster*, Site 1067, B4:4
bigelowii, *Braarudosphaera*
Site 1065, A:81
Site 1068, A:181
Site 1069, A:242
bigotii, *Stephanolithion*
Site 1065, A:81; B7:2, 4, 20
Site 1069, A:243; B7:5–6
bijugatus, *Zygrhablithus*
Site 1067, A:118; B4:5
Site 1068, B4:6–7
Site 1069, B4:7
binodosus, *Discoaster*
Site 1068, B4:34
Site 1069, B4:7
Birkelundia staurion “gap” Subzone, Site 1067, B4:5
Biscutum constans, Site 1069, B5:49
bisecta, *Reticulofenestra*, Site 1065, A:81
bisectus, *Reticulofenestra*, Site 1070, A:274
bobii, *Fasciculithus*
Site 1068, A:180–181
Site 1069, A:242
Bolivina spp., Site 1067, A:120
Braarudosphaera bigelowii
Site 1065, A:81
Site 1068, A:181
Site 1069, A:242
Braarudosphaera discula, Site 1067, B4:32
Braarudosphaera spp., Site 1067, A:117
bramlettei, *Discoaster*, Site 1068, B5:6, 48
bramlettei, *Tribrachiatus*
Site 1067, B4:6
Site 1068, A:180
Site 1069, A:242; B4:7, 34
Sites 1067–1069, B4:4
brevispinosum, *Sentusidinium*, Site 1069, A:263
britannica, *Ellipsagelosphaera*, Site 1069, B7:22
broedermanni, *Acarinina*
Site 1067, B9:3
Site 1068, A:179
Site 1069, A:243; B9:4
Broinsonia parca constricta, Site 1069, A:242; B5:8, 50
bullbrookii, *Acarinina*
Site 1067, A:119
Site 1069, A:243; B9:4
Site 1070, A:275; B9:5
- C**
- Callialasporites dampieri*, Site 1065, A:104
Calpionella, Site 1068, B6:8
Campylosphaera dela, Site 1068, B4:32
cantabriae, *Heliolithus*, Site 1067, A:119
carinatus, *Triquetrorhabdulus*, Site 1065, A:81
carniolensis, *Lithraphidites*, Site 1069, A:242

- Catapsydrax dissimilis*, Site 1065, A:79; B9:3
Catapsydrax stainforthi, Site 1065, A:79
Catapsydrax unicavus, Site 1070, A:275; B9:4
caullyeri, *Adnatospheridium*, Site 1065, A:104
Ceratolithoides aculeus, Site 1070, A:274
Ceratolithoides kamptneri, Site 1069, A:242
Cerebropollenites macroverrucosus
 Site 1065, A:104
 Site 1069, A:263
Chiasmolithus altus, Site 1070, A:274
Chiasmolithus danicus
 Site 1068, A:181
 Site 1069, B5:7
Chiasmolithus gigas
 Site 398, B4:8
 Site 1067, A:117; B4:5, 32
Chiasmolithus grandis, Site 1065, A:81
Chiasmolithus solitus, Site 1067, B4:5, 30
Chiasmolithus spp., Site 1069, B5:7
chiastius, *Microstaurus*, Site 1065, B7:20
Cibotiumspora juriensis, Site 1065, A:104
Cicatricosporites sp., Site 1069, A:263
Classopollis echinatus
 Site 1065, A:103–104
 Site 1069, A:263
Classopollis torosus
 Site 1065, A:103–104
 Site 1069, A:263
Coccolithus formosus
 Site 1067, B4:5
 Site 1068, B4:6–7
 Site 1069, B4:7
 Site 1070, A:274–275
Coccolithus pelagicus
 Site 1065, A:79
 Site 1067, A:119; B4:5–6, 32, 34; B5:5
 Site 1068, B4:6–7; B5:48
 Site 1069, A:242; B4:7
 Site 1070, A:274
Coccolithus robustus
 Site 1068, B5:47
 Site 1069, A:242
Coccolithus subpertusa, Site 1068, A:181
columnata, *Prediscosphaera*, Site 1070, A:275
compacta, *Helicosphaera*, Site 1070, A:274
Concavisporites sp., Site 1069, A:263
conicotruncata, *Morozovella*, Site 1069, A:244
conicus, *Cretarhabdus*, Site 1065, A:81
constans, *Biscutum*, Site 1069, B5:49
contortus, *Tribrachiatum*
 Site 1067, A:118; B4:6
 Site 1068, A:180; B4:34
Conusphaera mexicana, Site 1069, B7:23
Conusphaera mexicana mexicana
 Site 1065, B7:2, 4, 6
 Site 1069, B7:5, 21, 23
Conusphaera mexicana minor
 Site 1065, A:81; B7:4, 6
 Site 1069, A:243; B7:21
Conusphaera mexicana Zone, Site 1065, A:81
Conusphaera rothii, Site 1065, B7:6
convexa, *Acarinina*, Site 1068, A:179
convexa, *Igorina*, Site 1068, B9:4
coptensis, *Tetrapodorhabdus*, Site 1069, A:243
Corollithion achylosum, Site 1070, A:275
Coronocyclus nitescens, Site 1065, A:79
crenulata, *Retecapsa*, Site 1068, B5:6, 49
crenulatus, *Cretarhabdus*, Site 1065, A:81
cretacea, *Prediscosphaera*
 Site 1065, A:81
 Site 1068, B5:6, 49
 Site 1070, A:274
Cretarhabdus conicus, Site 1065, A:81
Cretarhabdus crenulatus, Site 1065, A:81
Cretarhabdus spp., Site 1068, A:182
Cribroperidinium globatum
 Site 1065, A:104
 Site 1069, A:263
Cribrosphaerella ehrenbergi
 Site 1065, A:81
 Site 1068, B5:6
 Site 1069, B5:50
 Site 1070, A:274
cristata, *Nannotetrina*, Site 1068, B4:30
Crucellipsis cuvillieri, Site 1069, A:242; B7:2, 5, 24
Cruciplacolithus intermedius
 Site 1068, A:181
 Site 1069, A:242
Cruciplacolithus primus
 Site 1067, A:119
 Site 1068, A:181; B5:9
Cruciplacolithus tenuis
 Site 1067, A:119
 Site 1068, A:181; B5:6
cuspis, *Rhomboaster*, Site 1068, A:180
cuvillieri, *Crucellipsis*, Site 1069, A:242; B7:2, 5, 24
cuvillieri, *Hexapodorhabdus*
 Site 1065, B7:20
 Site 1069, B7:5
Cyclagelosphaera deflandrei, Site 1069, A:242; B7:23
Cyclagelosphaera margerelii
 Site 1065, B7:20
 Site 1068, A:181–182
Cyclicargolithus abisectus, Site 1065, A:79
Cyclicargolithus floridanus
 Site 1065, A:79
 Site 1070, A:274
Cylindralithus duplex, Site 1069, B5:49
Cylindralithus nudus, Site 1069, B5:49
cylindratus, *Axopodorhabdus*, Site 1069, A:243; B7:23
cymbiformis, *Arkhangelskiella*
 Site 1065, A:81
 Site 1068, B5:6, 49
- D**
- dampieri*, *Callialasporites*, Site 1065, A:104
danicus, *Chiasmolithus*
 Site 1068, A:181
 Site 1069, B5:7
daubjergensis, *Globoconusa*, Site 1068, A:179
daveyi, *Systematophora*, Site 1065, A:103–104

- decussata, Micula*
Site 1065, A:81
Site 1068, B5:6
- deflandrei, Cyclagelosphaera*, Site 1069, A:242; B7:23
- deflandrei, Discoaster*
Site 1067, B4:5–6, 34
Site 1068, B4:6
- dehiscens, Globoquadrina*, Site 1065, A:77; B9:3
- dela, Campylosphaera*, Site 1068, B4:32
- Deltoidospora* sp.
Site 1065, A:104
Site 1069, A:263
- Diadorhombus rectus*, Site 1069, B7:5, 7
- diastypus, Discoaster*
Site 1067, B4:6; B5:5
Site 1068, B4:7; B5:6
Site 1069, A:242; B4:7
Sites 1067–1069, B4:4
- Diazomatolithus galicianus*
Site 1065, A:81; B7:4
Site 1069, A:243; B7:5, 21, 23
- Diazomatolithus lehmanii*
Site 1065, A:81; B7:4
Site 1069, B7:23
- Dichadogonyaulax (?) pannea*, Site 1069, A:263
- dictyoda, Reticulofenestra*
Site 1067, B4:5
Site 1068, B4:6
Site 1069, B4:7
- dimorphosus, Prinsius*
Site 1068, A:181
Site 1069, B5:7
- Discoaster barbadiensis*
Site 1067, B4:5–6
Site 1068, B4:6–7
Site 1069, B4:7
Site 1070, A:274–275
- Discoaster bifax*, Site 1067, B4:4
- Discoaster bifax* Zone, Site 1067, B4:4
- Discoaster binodosus*
Site 1068, B4:34
Site 1069, B4:7
- Discoaster binodosus* Subzone
Site 1067, B4:5
Site 1068, A:180; B4:6; B11:16
Site 1069, B4:7
- Discoaster bramlettei*, Site 1068, B5:6, 48
- Discoaster deflandrei*
Site 1067, B4:5–6, 34
Site 1068, B4:6
- Discoaster diastypus*
Site 1067, B4:6; B5:5
Site 1068, B4:7; B5:6
Site 1069, A:242; B4:7
Sites 1067–1069, B4:4
- Discoaster druggii*, Site 1065, A:81
- Discoaster falcatus*, Site 1068, A:180
- Discoaster gemmifer*, Site 1068, B4:34
- Discoaster kuepperi*
Site 1067, B4:34
Site 1068, B4:7
- Site 1069, B4:7
- Discoaster kuepperi* Subzone
Site 1067, B4:5
Site 1068, A:180; B4:6
Site 1069, B4:7, 9
- Discoaster limbatus*, Site 1069, A:242
- Discoaster lodoensis*
Site 1067, A:118; B4:5, 34
Site 1068, A:180
Site 1069, B4:7
- Discoaster lodoensis* Zone
Site 1067, B4:5
Site 1068, A:180; B4:6
Site 1069, A:242; B4:7
- Discoaster megastypus*, Site 1068, A:180
- Discoaster mohleri*
Site 1068, B5:6
Site 1069, A:242; B5:7
- Discoaster mohleri* Zone, Site 1068, A:181
- Discoaster multiradiatus*
Site 1067, A:119; B5:5, 47
Site 1068, B4:7; B5:6
Site 1069, A:242; B5:7
Site 1070, A:274
- Discoaster multiradiatus* Zone, Site 1068, A:180
- Discoaster nobilis*
Site 1068, A:180; B5:6
Site 1069, B5:7
- Discoaster saipanensis*, Site 1070, A:274–275
- Discoaster* sp., Site 1067, B4:34
- Discoaster splendidus*, Site 1069, A:242
- Discoaster strictus* Subzone, Site 1067, B4:5
- Discoaster sublodoensis*
Site 1067, A:117; B4:5
Site 1068, A:180; B4:6
Site 1069, B4:7, 9
Sites 1067–1069, B4:4
- Discoaster sublodoensis* Zone
Site 1068, B4:6
Site 1069, B4:7
- Discoaster tanii*
Site 1067, B4:5
Site 1069, B4:7
- Discoaster tanii nodifer*, Site 1070, A:274
- Discorhabdus patulus*
Site 1065, B7:4
Site 1069, B7:5, 21
- Discorhabdus rotatorius*, Site 1068, A:182
- Discorhabdus* sp., Site 1065, B7:20
- discula, Braarudosphaera*, Site 1067, B4:32
- dissimilis, Catapsydrax*, Site 1065, A:79; B9:3
- distentus, Sphenolithus*, Site 1070, A:274
- druggii, Discoaster*, Site 1065, A:81
- duplex, Cylindralithus*, Site 1069, B5:49

E

- echinatus, Classopollis*
Site 1065, A:103–104
Site 1069, A:263
- ehrenbergi, Cribrosphaerella*

Site 1065, A:81
 Site 1068, B5:6
 Site 1069, B5:50
 Site 1070, A:274
Eiffellithus eximius, Site 1069, B5:8
Eiffellithus turriseiffelii, Site 1068, B5:50
Ellipsagelosphaera britannica, Site 1069, B7:22
Ellipsagelosphaera/Watznaueria plexus, Site 1065, A:81;
 B7:4, 6
Ellipsolithus macellus
 Site 1067, A:119
 Site 1068, A:181; B5:6, 47
 Site 1069, A:242; B5:7
Ellipsolithus macellus Zone, Site 1068, A:181

embergeri, *Zeugrhabdotus*
 Site 1065, A:81; B7:4
 Site 1068, A:182
 Site 1069, B7:23
eminens, *Toweius*, Site 1068, B5:48
eobulloides, *Euglobigerina*, Site 1068, A:179
eocaena, *Globigerina*, Site 1068, A:179
eocaena, *Subbotina*, Site 1068, B9:3
epigona, *Rzehakina*, Site 1067, A:120
erectus, *Zeugrhabdotus*
 Site 1065, A:81; B7:4
 Site 1069, B7:23
erismata, *Paleopontosphaera*, Site 1069, B7:5
escaigii, *Polypodorhabdus*
 Site 1065, B7:20
 Site 1069, B7:21
Eucommiidites troedssonii, Site 1065, A:104
Euglobigerina eobulloides, Site 1068, A:179
eugubina, *Parvularugoglobigerina*, Site 1068, A:179; B9:2, 5
Exesipollenites tumulus
 Site 1065, A:104
 Site 1069, A:263
eximius, *Eiffellithus*, Site 1069, B5:8

F

falcatus, *Discoaster*, Site 1068, A:180
Fasciculithus alanii, Site 1069, B5:7
Fasciculithus aubertae, Site 1068, B5:47
Fasciculithus bobii
 Site 1068, A:180–181
 Site 1069, A:242
Fasciculithus involutus, Site 1068, B5:47
Fasciculithus lillianae
 Site 1068, B5:6
 Site 1069, B5:7
Fasciculithus magnus
 Site 1068, A:181
 Site 1069, A:242
Fasciculithus shaubii
 Site 1068, B5:6, 50
 Site 1069, B5:7
Fasciculithus thomasii, Site 1068, B5:47
Fasciculithus tonii, Site 1068, A:180
Fasciculithus tympaniformis
 Site 1068, A:180; B5:6, 9, 47–48

Site 1069, A:242; B5:9
Fasciculithus tympaniformis Zone, Site 1068, A:181
Fasciculithus ulii, Site 1068, A:181
favula, *Miravetesina*, Site 1065, A:81; B7:4, 20
floralis, *Lithastrinus*, Site 1070, A:275
floridanus, *Cyclicargolithus*
 Site 1065, A:79
 Site 1070, A:274
formosus, *Coccolithus*
 Site 1067, B4:5
 Site 1068, B4:6–7
 Site 1069, B4:7
 Site 1070, A:274–275
fulgens, *Nannotetrina*, Site 1067, A:117; B4:30
furcatolithoides, *Sphenolithus*, Site 1067, B4:5

G

galicianus, *Diazomatolithus*
 Site 1065, A:81; B7:4
 Site 1069, A:243; B7:5, 21, 23
gammation, *Girgisia*
 Site 1067, B4:5
 Site 1069, B4:7
gemmifer, *Discoaster*, Site 1068, B4:34
gigas, *Chiasmolithus*
 Site 398, B4:8
 Site 1067, A:117; B4:5, 32
Girgisia gammation
 Site 1067, B4:5
 Site 1069, B4:7
Globanomalina pseudomenardii, Site 1068, A:179
globatum, *Cribroperidinium*
 Site 1065, A:104
 Site 1069, A:263
Globigerina eocaena, Site 1068, A:179
Globigerina lineaperta, Site 1067, A:119
Globigerina spp., Site 1068, B6:3, 8
Globigerinatheka senni, Site 1069, A:243; B9:4
Globigerinatheka spp., Site 1070, A:275; B9:4
Globigerinoides spp., Site 1065, A:79
Globigerinoides trilobus, Site 1065, A:77; B9:3
Globoconusa daubjergensis, Site 1068, A:179
Globoquadrina dehiscens, Site 1065, A:77; B9:3
Globoquadrina spp., Site 1070, A:275; B9:4
Globoquadrina venezuelana, Site 1065, A:77; B9:3
Globorotalia kugleri, Site 1065, A:79
glomerosa curva, *Praeorbulina*, Site 1065, A:77
Glomospira spp.
 Site 1067, A:119
 Site 1068, A:180
 Site 1069, A:244
 Site 1070, A:275
grandis, *Chiasmolithus*, Site 1065, A:81
granulosa, *Umbria*, Site 1069, A:242
granulosa minor, *Umbria*, Site 1069, B7:5, 24

H
Haplophragmoides spp., Site 1068, A:180
Hayesites irregularis, Site 1070, A:275

Helicosphaera ampliaptera, Site 1065, A:79
Helicosphaera compacta, Site 1070, A:274
Helicosphaera perch-nielseniae, Site 1070, A:274
Heliolithus cantabriae, Site 1067, A:119
Heliolithus kleinpellii
 Site 1068, A:180–181; B5:6, 48
 Site 1069, A:242; B5:7
Heliolithus kleinpellii Zone, Site 1068, A:181
Heliolithus riedelii
 Site 1068, A:181; B5:6
 Site 1069, B5:7
heteromorphus, *Sphenolithus*, Site 1065, A:79
Hexapodorhabdus cuvillieri
 Site 1065, B7:20
 Site 1069, B7:5
hillae, *Reticulofenestra*, Site 1070, A:275
Hirmeriella sp.
 Site 1065, A:104
 Site 1069, A:263
Hormosina spp., Site 1070, A:275

I

Igorina convexa, Site 1068, B9:4
inflata, *Rhabdosphaera*
 Site 1067, A:117; B4:5
 Site 1068, B4:6
 Site 1069, B4:7, 9, 34
infracretacea, *Assipetra*, Site 1069, A:242
Inoceramus spp., Site 1068, B6:3, 8
intermedius, *Cruciplacolithus*
 Site 1068, A:181
 Site 1069, A:242
inversus, *Markalius*, Site 1068, B5:49
inversus, *Pseudotriquetrorhabdulus*
 Site 1068, A:180
 Site 1069, A:242
involutus, *Fasciculithus*, Site 1068, B5:47
irregularis, *Hayesites*, Site 1070, A:275
Ischyosporites variegatus, Site 1069, A:263
Isthmolithus recurvus, Site 1070, A:274–275

J

jurapelagicus, *Tubodiscus*, Site 1069, A:242
juriensis, *Cibotiumspora*, Site 1065, A:104

K

kamptneri, *Ceratolithoides*, Site 1069, A:242
kamptneri, *Nannoconus*, Site 1068, A:181–182
keryabi, *Semihololithus*, Site 1067, B4:32
kleinpellii, *Heliolithus*
 Site 1068, A:180–181; B5:6, 48
 Site 1069, A:242; B5:7
kuepperi, *Discoaster*
 Site 1067, B4:34
 Site 1068, B4:7
 Site 1069, B4:7
kugleri, *Globorotalia*, Site 1065, A:79

L

laffittei, *Rotelapillus*
 Site 1065, A:81; B7:2
 Site 1069, B5:49
 Site 1070, A:275
lehmanii, *Diazomatolithus*
 Site 1065, A:81; B7:4
 Site 1069, B7:23
Lenticulina spp., Site 1067, A:120
lillianae, *Fasciculithus*
 Site 1068, B5:6
 Site 1069, B5:7
limbatus, *Discoaster*, Site 1069, A:242
lineaperta, *Globigerina*, Site 1067, A:119
Lithastrinus floralis, Site 1070, A:275
Lithastrinus floralis Zone, Site 1070, A:275
Lithraphidites carniolensis, Site 1069, A:242
Lithraphidites quadratus, Site 1069, A:242
lodoensis, *Discoaster*
 Site 1067, A:118; B4:5, 34
 Site 1068, A:180
 Site 1069, B4:7
Lotharingius sigillatus, Site 1065, B7:2
Lycopodiacidites sp., Site 1065, A:104
Lycopodiumsporites sp., Site 1065, A:104

M

macellus, *Ellipsolithus*
 Site 1067, A:119
 Site 1068, A:181; B5:6, 47
 Site 1069, A:242; B5:7
macroverrucosus, *Cerebropollenites*
 Site 1065, A:104
 Site 1069, A:263
magnicrassus, *Toweius*, Site 1068, B4:7
magnus, *Fasciculithus*
 Site 1068, A:181
 Site 1069, A:242
margerelii, *Cyclagelosphaera*
 Site 1065, B7:20
 Site 1068, A:181–182
Markalius inversus, Site 1068, B5:49
martinii, *Prinsius*
 Site 1068, A:181
 Site 1069, A:242; B5:7
megastypus, *Discoaster*, Site 1068, A:180
mexicana, *Conusphaera*, Site 1069, B7:23
mexicana mexicana, *Conusphaera*
 Site 1065, B7:2, 4, 6
 Site 1069, B7:5, 21, 23
mexicana minor, *Conusphaera*
 Site 1065, A:81; B7:4, 6
 Site 1069, A:243; B7:21
Micrantholithus aff. *attenuatus*, Site 1065, A:81
Micrantholithus attenuatus, Site 1065, A:81
Micrantholithus spp., Site 1067, A:117
Micrhystridium sp., Site 1065, A:104
Microstaurus chiastius, Site 1065, B7:20
Micula decussata

- Site 1065, A:81
Site 1068, B5:6
Micula murus
Site 1068, A:180–181; B5:6
Site 1069, A:242; B5:8
Micula prinsii
Site 1068, A:180–181
Site 1069, B5:8
milowii, *Triquetrorhabdulus*, Site 1065, A:79–80
Miravetesina favula, Site 1065, A:81; B7:4, 20
mohleri, *Discoaster*
Site 1068, B5:6
Site 1069, A:242; B5:7
moriformis, *Sphenolithus*
Site 1067, B4:5–6
Site 1068, B4:6
Morozovella aequa
Site 1068, A:179; B9:4
Site 1069, A:243
Morozovella aragonensis
Site 1067, A:119; B9:3
Site 1068, A:179; B9:3
Site 1069, A:243; B9:4
Morozovella conicotruncata, Site 1069, A:244
Morozovella quetra, Site 1067, B9:3
multiradiatus, *Discoaster*
Site 1067, A:119; B5:5, 47
Site 1068, B4:7; B5:6
Site 1069, A:242; B5:7
Site 1070, A:274
murus, *Micula*
Site 1068, A:180–181; B5:6
Site 1069, A:242; B5:8

N

- Nannoconus bermudezi*
Site 1068, A:181–182
Site 1069, A:242
Nannoconus kamptneri, Site 1068, A:181–182
Nannoconus steinmannii
Site 1068, A:180–182
Site 1069, A:242
Nannotetrina cristata, Site 1068, B4:30
Nannotetrina fulgens, Site 1067, A:117; B4:30
Nannotetrina pappii, Site 1067, A:117
Nannotetrina quadrata Zone, Site 1067, B4:5
nebulosus, *Rhagodiscus*, Site 1069, A:242
Neochiastozygus perfectus(?), Site 1068, B5:48
nitescens, *Coronocyclus*, Site 1065, A:79
nobilis, *Discoaster*
Site 1068, A:180; B5:6
Site 1069, B5:7
nudus, *Cylindralithus*, Site 1069, B5:49

O

- octoradiata*, *Ahmullerella*, Site 1068, B5:49
operculata, *Thoracosphaera*, Site 1068, A:181
orthostylus, *Tribrachiatius*
Site 1065, A:81

- Site 1067, A:118; B4:5–6, 34
Site 1068, A:180; B4:6–7
Site 1069, B4:7
Osmundacidites sp., Site 1065, A:104

P

- Paleopontosphaera erismata*, Site 1069, B7:5
pallidus, *Vitreisporites*
Site 1065, A:104
Site 1069, A:263
pannea, *Dichadogonyaulax* (?), Site 1069, A:263
pappii, *Nannotetrina*, Site 1067, A:117
Paratrochamminoides spp., Site 1070, A:275
parca constricta, *Broinsonia*, Site 1069, A:242; B5:8, 50
Parvularugoglobigerina eugubina, Site 1068, A:179; B9:2, 5
patulus, *Discorhabdus*
Site 1065, B7:4
Site 1069, B7:5, 21
patulus, *Tubirhabdus*, Site 1069, B7:5
pelagicus, *Coccolithus*
Site 1065, A:79
Site 1067, A:119; B4:5–6, 32, 34; B5:5
Site 1068, B4:6–7; B5:48
Site 1069, A:242; B4:7
Site 1070, A:274
pentamerata, *Acarinina*, Site 1067, B9:3
perch-nielseniae, *Helicosphaera*, Site 1070, A:274
perfectus(?), *Neochiastozygus*, Site 1068, B5:48
phacelosus, *Tranolithus*, Site 1065, A:81
placomorpha, *Reticulofenestra*, Site 1067, B4:32
Placozygus sigmoides, Site 1068, B5:48
Planorotalites pseudomenardii, Site 1068, B9:4
Polypodorhabdus escaigii
Site 1065, B7:20
Site 1069, B7:21
Praeorbulina glomerata curva, Site 1065, A:77
Praeorbulina transitoria, Site 1065, A:79
Prediscosphaera columnata, Site 1070, A:275
Prediscosphaera cretacea
Site 1065, A:81
Site 1068, B5:6, 49
Site 1070, A:274
Prediscosphaera spp., Site 1069, B5:50
Prediscosphaera stoveri, Site 1069, B5:49
predistentus, *Sphenolithus*, Site 1070, A:274
primitiva, *Acarinina*, Site 1067, A:119
primus, *Cruciplacolithus*
Site 1067, A:119
Site 1068, A:181; B5:9
primus, *Sphenolithus*, Site 1069, B5:9
prinsii, *Micula*
Site 1068, A:180–181
Site 1069, B5:8
Prinsius dimorphosus
Site 1068, A:181
Site 1069, B5:7
Prinsius martinii
Site 1068, A:181
Site 1069, A:242; B5:7
Pseudohastigerina wilcoxensis

Site 1067, A:119
 Site 1068, A:179; B9:4
pseudomenardii, *Globanomalina*, Site 1068, A:179
pseudomenardii, *Planorotalites*, Site 1068, B9:4
Pseudotriquetrorhabdulus inversus
 Site 1068, A:180
 Site 1069, A:242
psilatus, *Spheripollenites*
 Site 1065, A:104
 Site 1069, A:263

Q

quadratus, *Lithraphidites*, Site 1069, A:242
Quadrum sissinghii, Site 1069, A:242
Quadrum trifidum, Site 1069, A:242
quetra, *Morozovella*, Site 1067, B9:3

R

radians, *Sphenolithus*
 Site 1067, B4:5
 Site 1069, B4:7
rectus, *Diadorhombus*, Site 1069, B7:5, 7
recurvus, *Isthmolithus*, Site 1070, A:274–275
Retecapsa crenulata, Site 1068, B5:6, 49
Reticulofenestra bisecta, Site 1065, A:81
Reticulofenestra bisectus, Site 1070, A:274
Reticulofenestra dictyoda
 Site 1067, B4:5
 Site 1068, B4:6
 Site 1069, B4:7
Reticulofenestra hillae, Site 1070, A:275
Reticulofenestra placomorpha, Site 1067, B4:32
Reticulofenestra samodurovii, Site 1067, B4:4–5
Reticulofenestra stavensis, Site 1070, A:274
Reticulofenestra umbilica
 Site 1067, A:117; B4:4
 Site 1070, A:274–275
Rhabdosphaera inflata
 Site 1067, A:117; B4:5
 Site 1068, B4:6
 Site 1069, B4:7, 9, 34
Rhabdosphaera inflata Subzone
 Site 1067, B4:5
 Site 1068, B4:6
 Site 1069, A:242
Rhagodiscus nebulosus, Site 1069, A:242
Rhomboaster cuspis, Site 1068, A:180
riedelii, *Heliolithus*
 Site 1068, A:181; B5:6
 Site 1069, B5:7
robustus, *Coccolithus*
 Site 1068, B5:47
 Site 1069, A:242
rohri, *Truncorotaloides*, Site 1067, A:119; B9:3
rotatorius, *Discorhabdus*, Site 1068, A:182
Rotelapillus laffittei
 Site 1065, A:81; B7:2
 Site 1069, B5:49
 Site 1070, A:275

rothii, *Conusphaera*, Site 1065, B7:6
Rzehakina epigona, Site 1067, A:120

S

Saccamina spp., Site 1067, A:119–120
saipanensis, *Discoaster*, Site 1070, A:274–275
samodurovii, *Reticulofenestra*, Site 1067, B4:4–5
scanica, (?)*Striatella*
 Site 1065, A:103–104
 Site 1069, A:263
Semihololithus keryabi, Site 1067, B4:32
senni, *Globigerinatheka*, Site 1069, A:243; B9:4
 (?)*Senoniasphaera* sp.
 Site 1065, A:104
 Site 1069, A:263
Sentusidinium brevispinosum, Site 1069, A:263
sexiramatus, *Stradnerlithus*, Site 1069, A:243; B7:5
shaubii, *Fasciculithus*
 Site 1068, B5:6, 50
 Site 1069, B5:7
sigillatus, *Lotharingius*, Site 1065, B7:2
sigmoides, *Placozygus*, Site 1068, B5:48
sissinghii, *Quadrum*, Site 1069, A:242
soldadoensis, *Acarinina*
 Site 1067, B9:3
 Site 1068, A:179; B9:3
 Site 1069, A:243
soldadoensis angulosa, *Acarinina*, Site 1068, A:179
solitus, *Chiasmolithus*, Site 1067, B4:5, 30
sparsus, *Biantholithus*
 Site 1068, A:181
 Site 1069, B5:7
spectabilis, *Spiroplectamina*, Site 1067, A:120
Sphenolithus belemnus, Site 1065, A:80
Sphenolithus distentus, Site 1070, A:274
Sphenolithus furcatolithoides, Site 1067, B4:5
Sphenolithus heteromorphus, Site 1065, A:79
Sphenolithus moriformis
 Site 1067, B4:5–6
 Site 1068, B4:6
Sphenolithus predistentus, Site 1070, A:274
Sphenolithus predistentus Zone, Site 1070, A:274
Sphenolithus primus, Site 1069, B5:9
Sphenolithus radians
 Site 1067, B4:5
 Site 1069, B4:7
Spheripollenites psilatus
 Site 1065, A:104
 Site 1069, A:263
Spiroplectamina spectabilis, Site 1067, A:120
splendidus, *Discoaster*, Site 1069, A:242
stainforthi, *Catapsydrax*, Site 1065, A:79
Staurolithites angustus, Site 1069, B5:49
stavensis, *Reticulofenestra*, Site 1070, A:274
steinmannii, *Nannoconus*
 Site 1068, A:180–182
 Site 1069, A:242
Stephanolithion atmetros, Site 1065, B7:2
Stephanolithion bigotii
 Site 1065, A:81; B7:2, 4, 20

Site 1069, A:243; B7:5–6
stoveri, *Prediscosphaera*, Site 1069, B5:49
stradneri, *Vekshinella*, Site 1065, A:81
Stradnerlithus sexiramatus, Site 1069, A:243; B7:5
 (?)*Striatella scanica*
 Site 1065, A:103–104
 Site 1069, A:263
Subbotina eocaena, Site 1068, B9:3
sublodoensis, *Discoaster*
 Site 1067, A:117; B4:5
 Site 1068, A:180; B4:6
 Site 1069, B4:7, 9
 Sites 1067–1069, B4:4
subpertusa, *Coccolithus*, Site 1068, A:181
Systematophora daveyi, Site 1065, A:103–104

T

tanii, *Discoaster*
 Site 1067, B4:5
 Site 1069, B4:7
tanii nodifer, *Discoaster*, Site 1070, A:274
tenuis, *Cruciplacolithus*
 Site 1067, A:119
 Site 1068, A:181; B5:6
Tetrapodorhabdus coptensis, Site 1069, A:243
thomasi, *Fasciculithus*, Site 1068, B5:47
Thoracosphaera operculata, Site 1068, A:181
tonii, *Fasciculithus*, Site 1068, A:180
torosus, *Classopollis*
 Site 1065, A:103–104
 Site 1069, A:263
tovae, *Toweius*, Site 1068, B5:48
Toweius eminens, Site 1068, B5:48
Toweius magnicrassus, Site 1068, B4:7
Toweius tovae, Site 1068, B5:48
Tranolithus phacelosus, Site 1065, A:81
transitoria, *Praeorbulina*, Site 1065, A:79
Tribrachiatus bramlettei
 Site 1067, B4:6
 Site 1068, A:180
 Site 1069, A:242; B4:7, 34
 Sites 1067–1069, B4:4
Tribrachiatus contortus
 Site 1067, A:118; B4:6
 Site 1068, A:180; B4:34
Tribrachiatus contortus Zone
 Site 1068, B4:7
 Site 1069, A:242; B4:8
Tribrachiatus orthostylus
 Site 1065, A:81
 Site 1067, A:118; B4:5–6, 34
 Site 1068, A:180; B4:6–7
 Site 1069, B4:7
Tribrachiatus orthostylus Zone
 Site 1067, B4:5
 Site 1068, B4:8–9
 Site 1069, B4:7, 9
trifidum, *Quadrum*, Site 1069, A:242
trifidus, *Uniplanarius*, Site 1069, B5:8–9
trilobus, *Globigerinoides*, Site 1065, A:77; B9:3

Triquetrorhabdulus carinatus, Site 1065, A:81
Triquetrorhabdulus milowii, Site 1065, A:79–80
troedssonii, *Eucommiidites*, Site 1065, A:104
Truncorotaloides rohri, Site 1067, A:119; B9:3
Tubirhabdus patulus, Site 1069, B7:5
Tubodiscus jurapelagicus, Site 1069, A:242
Tubodiscus verenea, Site 1069, A:242
tumulus, *Exesipollenites*
 Site 1065, A:104
 Site 1069, A:263
turrisieffellii, *Eiffellithus*, Site 1068, B5:50
tympaniformis, *Fasciculithus*
 Site 1068, A:180; B5:6, 9, 47–48
 Site 1069, A:242; B5:9

U

ulii, *Fasciculithus*, Site 1068, A:181
umbilica, *Reticulofenestra*
 Site 1067, A:117; B4:4
 Site 1070, A:274–275
Umbria granulosa, Site 1069, A:242
Umbria granulosa minor, Site 1069, B7:5, 24
unicavus, *Catapsydrax*, Site 1070, A:275; B9:3
Uniplanarius trifidus, Site 1069, B5:8–9

V

variegatus, *Ischyosporites*, Site 1069, A:263
Vekshinella stradneri, Site 1065, A:81
venezuelana, *Globoquadrina*, Site 1065, A:77; B9:3
verenea, *Tubodiscus*, Site 1069, A:242
Vitreisporites pallidus
 Site 1065, A:104
 Site 1069, A:263

W

Watznaueria barnesae
 Site 1065, B7:7, 19
 Site 1068, A:181–182; B5:6
 Site 1069, B7:22
 Site 1070, A:275
Watznaueria spp., Site 1065, A:81; B7:4
wilcoxensis, *Pseudohastigerina*
 Site 1067, A:119
 Site 1068, A:179; B9:4

Z

Zeugrhabdotus embergeri
 Site 1065, A:81; B7:4
 Site 1068, A:182
 Site 1069, B7:23
Zeugrhabdotus erectus
 Site 1065, A:81; B7:4
 Site 1069, B7:23
 zones (with letter prefixes)
 CC7, Site 1070, A:275
 CC22, B5:8, 11
 CC22a, Site 1069, A:242
 CC23, Site 398D, B5:8

- CC23a, Site 1069, A:242; B5:8, 11
 CC23b, Site 1069, B5:8, 11
 CC23b/CC24 boundary, Site 1069, B5:9
 CC24, B5:8, 11
 CC25a, B5:8, 11
 CC25b, Site 1068, B5:6, 11
 CC25c, Site 1069, B5:8
 CC25c/CC26, Site 1068, B5:6
 CC26, A:242; B5:8
 CC26b, Site 1069, B5:8
 CP1a, A:180–181; B5:8
 CP1b, A:181, 242; B5:6–8; B9:3
 CP2, A:181, 242; B5:6–7; B9:3
 CP3, A:181, 242; B5:6–7; B9:3
 CP4, A:181, 242; B5:6, 12
 CP5, A:181, 242; B5:6, 12
 CP6, A:181, 242; B5:6–7
 CP7, A:180, 242; B5:6–7
 CP8, A:117–119, 180, 242; B5:6–7
 CP8/CP9 boundary, Sites 1067–1069, B4:4
 CP8a, Site 1068, B5:6
 CP9a, A:118, 242; B4:6–8
 CP9b, A:118, 180; B4:5–6; B11:16
 CP10, A:118, 180; B4:5–6, 8–9
 CP10/CP11 boundary, Site 1069, B4:9
 CP11, A:118, 180, 242; B4:5–7
 CP11/CP12a boundary, Sites 1067–1069, B4:4
 CP12, A:118; B4:6
 CP12a, A:180, 242; B4:5–7, 9
 CP12b, A:117, 180, 242; B4:5–7
 CP13, Site 1067, B4:5
 CP13a, Site 1067, A:117; B4:5
 CP13b, A:117; B4:8
 CP13c, Site 1067, A:117; B4:5; B9:3; B11:15
 CP14, Site 1067, A:117
 CP14a, Site 1067, B4:4; B11:15
 M1, Site 1065, A:77, 79
 M2, Site 1065, A:77, 79
 M3, Site 1065, A:77, 79
 M4a, Site 1065, A:77
 M5, Site 1065, A:77; B9:3
 N4, Site 1065, B9:3
 N5, Site 1065, B9:3
 N6, A:275; B9:3–4
 N7, Site 1065, B9:3
 N7/N6 boundary, Site 898, B11:11
 NN1, Site 1065, A:77, 81
 NN2, Site 1065, A:77, 81
 NN3, Site 1065, A:77, 81
 NN4, Site 1065, A:77, 79
 NN15, Site 900, B11:12
 NN19, Site 900, B11:12
 NN19a, B11:9, 11–12
 NN19f, Site 897, B11:8
 NN19h, Site 897, B11:8
 NN22, Site 897, B11:9
 NN23, Site 897, B11:8
 NN23/NN22, Site 900, B11:12
 NP1, Site 1068, A:180–181
 NP2, A:118, 242
 NP3, A:118, 242
 NP4, A:118, 181, 242
 NP5, Site 1068, A:181
 NP6, Site 1068, A:181
 NP7, A:181, 242
 NP8, A:180, 242
 NP9, A:117–119, 180, 242
 NP10, A:118, 242; B4:6–8
 NP11, A:118, 180; B4:5, 7
 NP12, A:118, 180; B4:5–6
 NP13, A:118; B4:5–7
 NP13/NP14 boundary, B4:4
 NP14, A:117–118, 180, 242; B4:6–7
 NP15, Site 1067, A:117
 NP16, Site 1067, A:117; B4:4
 NP22, Site 1070, A:275
 NP23, Site 1070, A:274
 P1b, Site 1067, B9:3
 P2, A:179; B9:3
 P3b, Site 1067, B9:3
 P4, Site 1068, A:179
 P4/P5, Site 1068, B9:4
 P9, A:179, 243, 275; B9:4–5
 P9/P8 boundary, Site 1067, B9:3
 P10, A:243; B9:3–4
 P11, Site 1067, B9:3
 P11/P10 boundary, Site 1067, B9:3
 P12, Site 1067, B9:3
 P14, Site 1070, A:275; B9:4–5
 P21, Site 1070, A:275; B9:4
Zygrhablithus bijugatus
 Site 1067, A:118; B4:5
 Site 1068, B4:6–7
 Site 1069, B4:7